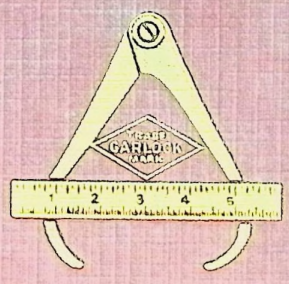
THE GARLOCK PACKING COMPANY



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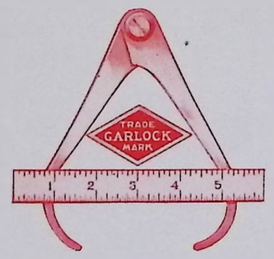
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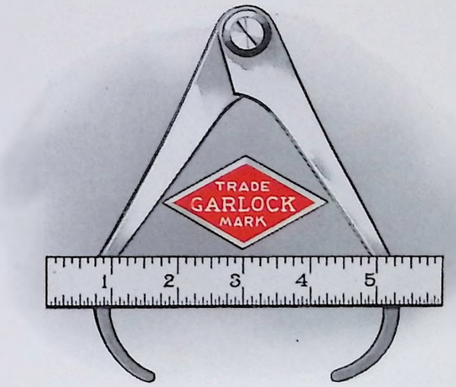
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AND OTHER GARLOCK PRODUCTS



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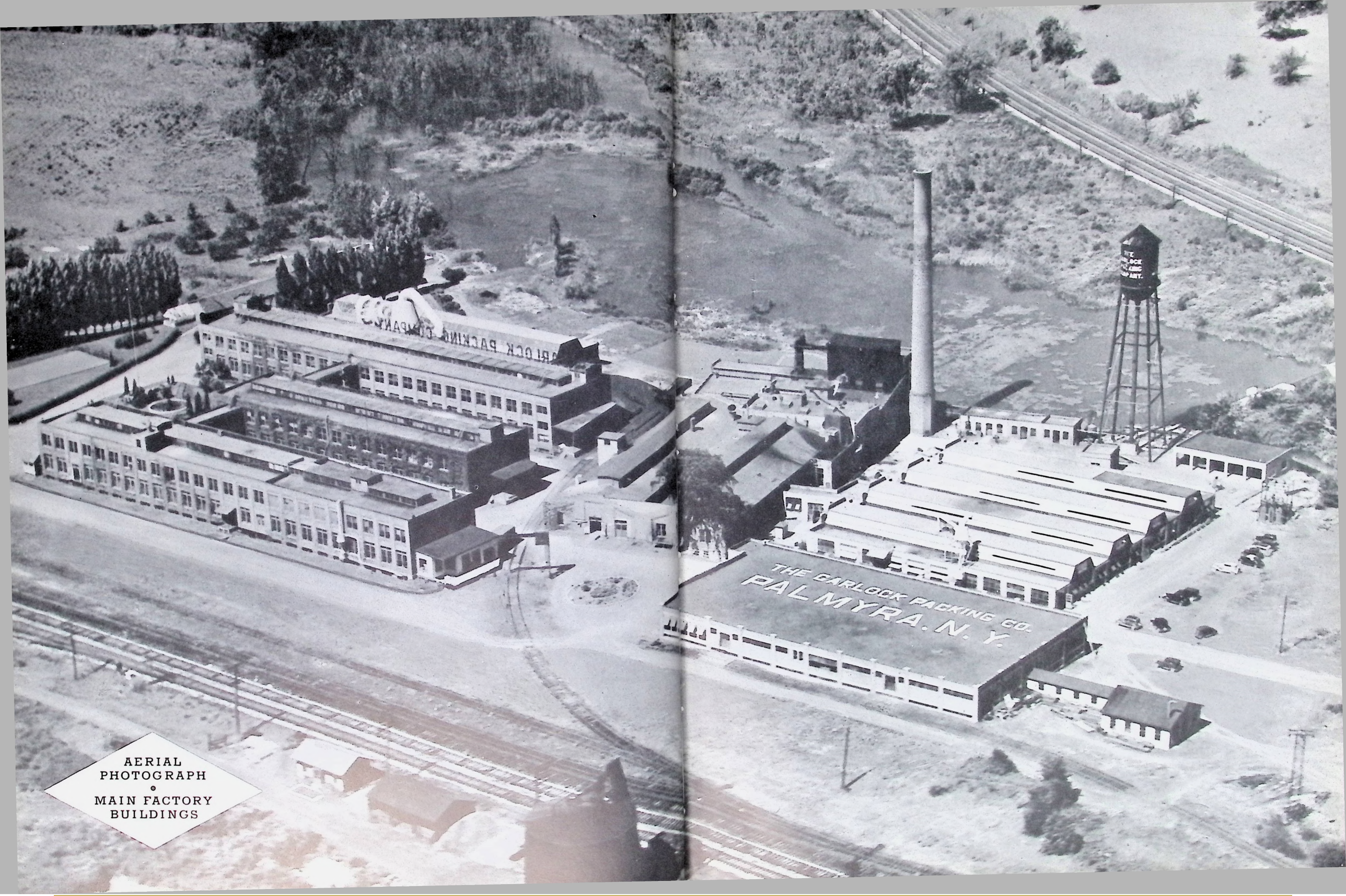
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AERIAL PHOTOGRAPH
•
MAIN FACTORY BUILDINGS

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INTRODUCTION

SINCE 1887 The GARLOCK Packing Company has been identified prominently with the manufacture and sale of high-grade mechanical packings and immediately allied materials. Its Quality Controlled products, sold only under the registered GARLOCK name and the caliper and scale trade-mark emblem, are known in every civilized country.

In this catalog are illustrated and described those styles and types of GARLOCK materials for which there is general usage and demand. It is hoped that the book will serve the user as a complete guide and reference book for mechanical packing materials. Reference to the text and to the recommendation tables should permit the selection of a satisfactory GARLOCK product for any regular packing job.

For special equipment, or for unusual operating conditions, packings other than standard frequently are desirable or necessary. A comprehensive line of special GARLOCK materials, each designed and intended for some specific and out-of-the-ordinary equipment or service, therefore, has been developed. These special GARLOCK materials are not shown in this catalog. To include them would require a book cumbersome in size and confusing to the user.

When confronted with a condition on which satisfactory packing service is not being obtained, and for which none of the products included in this catalog appears to be suitable, the packing user is invited to call a GARLOCK Representative. Members of this corps of competent men, fully qualified by training and experience for consultation concerning packing problems, are available everywhere.

A survey by a GARLOCK Representative will determine whether the line of regular or special products contains one exactly suited to the condition on which trouble is being experienced. If not, a new material, designed to meet that condition, will be developed in the GARLOCK laboratories and manufactured in the GARLOCK factories.

To the packing users of the world this catalog and the services of the extensive field organization of GARLOCK Representatives are dedicated.

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GARLOCK PACKINGS

THE GARLOCK Packing Company consistently makes every effort to place in the hands of its customers packings that are standard in every way. Through the Company's Quality Controlled method of manufacture the finished products are right in quality of material, uniform in excellence of workmanship, correct in measurements, and in general conformity with the Company's established standards.

The actual application and care of packings are responsibilities of the user. The few simple suggestions set forth below may save annoyance, trouble and expense if followed out carefully.

ROD PACKINGS Rod packings should be applied to a clean stuffing box. Each ring should be firmly seated, by tamping, as it is applied. When the stuffing box is full, the gland should be tightened with a wrench to seat the packing properly; then slacken off and retighten by hand, locking the gland a quarter turn with a wrench. Care should be taken to avoid cocking the gland.

Ammonia compressor rod packings contract during a "freeze back," making it necessary sometimes to tighten the gland to stop leakage. With the returning heat following the "freeze back" the packing expands, and unless the gland then is slackened off to compensate for this expansion the packing may be damaged. Most of the packing failures on ammonia compressors are caused by the failure to adjust the packing after a "freeze back."

Packings applied to hot water pumps sometimes cause trouble because of expansion as the temperature of the water increases. In this service packing should be watched carefully for a few days after application and the gland slackened off from time to time if expansion or swelling of the packing has occurred.

Proper lubrication is essential. A liberal application of one of the lubricating compounds described on pages 136 and 137 to all surfaces of rod packings before installation is strongly recommended. Rods should also be swabbed with the same compound at frequent intervals. Observance of the above practice will reduce friction, prevent scored rods and add life to the packing.

GASKETS Before applying gaskets the flanges should be cleaned thoroughly. Gaskets should be cut and centered so that no portion of the inner diameter or flange of the gasket projects beyond the flange of the pipe or equipment on which the gasket is being applied.

Many gasket users wish to coat gaskets with a paste before applying them to pipe lines or equipment handling hot or cold gasoline, oil or petroleum derivatives. Inasmuch as the pastes sometimes used for this purpose actually are harmful to the gaskets, the Company developed GARLOCK Gasket Paste, Compound No. 1, for this service. Compound No. 1, which is described on page 137, has the correct body for a seal, expands under heat, will not discolor gasoline and is not harmful to gaskets.

When tightening the gasket in the flange make sure that the bolts are drawn up evenly all around. Unless this is done trouble will follow.

In the event of apparent failure of any packing at any time the Company will gladly have a competent GARLOCK Representative investigate all of the plant conditions as applying to packings, and make suitable recommendations for future packing usage.

GARLOCK PACKINGS

THE recommendations appearing on the following pages must be employed with due regard for the explanations and qualifications set forth in the succeeding paragraphs.

In preparing recommendations, the obviously simple and desirable procedure would embody the naming of one style of material for each kind of service condition described. This Company, however, has determined on the basis of its experience over the past fifty years that no single packing can be flatly and definitely recommended for universal usage with the maximum of economy and service on any given condition. The principal reasons for this situation are:

1. Variations in operating methods in relation to one installation as compared with another.
2. Variations in operating conditions as between two apparently similar installations.
3. Variations in operating requirements to be met in different installations for same service.
4. Variations in contributory service factors surrounding one installation on a certain condition as compared with another apparently duplicate installation.
5. Personal preference of individual operators for a certain type of design or material.

These circumstances have necessitated the extension of the GARLOCK recommendations to include several styles of packing for each service named. Otherwise the user might be misled in making his selection.

In making a choice of packings from the recommendation lists, the user will bear in mind the following points:

1. Each of the several styles named for a given service is in successful employment for that particular usage in hundreds of installations all over the world.
2. The style first named in each list is the one most widely used for the stated condition.
3. The styles named later in each list are successfully used for the condition stated approximately in the order of their listing.

We suggest that the intending user, who is not familiar with the proper GARLOCK product to employ for a stated condition, select the material named first in the list for that service. In so doing, he is invited to accompany his inquiry or order with a detailed statement of conditions that the correctness of his choice may be checked.

The Company maintains a record, constantly under revision, of thousands of actual installations under all kinds and classes of service ranging from the ordinary everyday applications to those of most infrequent and unusual occurrence. The information relative thereto is at the disposal of the Company's district offices and sales representatives for the benefit of all packing users.

The experience of this Company over a period of many years proves that in the great majority of cases, the best selection of a packing product can be made by affording a GARLOCK representative an opportunity to survey carefully the requirements of the job. It is recommended, therefore, that a representative of the Company be consulted concerning the selection of GARLOCK products whenever the convenience of the user will permit.

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Types and Styles of Garlock Packings Commonly Used on RECIPROCATING PISTON RODS, VALVE RODS, OUTSIDE PACKED PLUNGERS and RAMS

TYPE OF PACKING	STEAM High Pressure		STEAM Low Pressure		WATER Hot		WATER—Cold High Pressure		WATER—Cold Low Pressure		GASOLINE and OIL—Hot	
	Garlock Style	Page	Garlock Style	Page	Garlock Style	Page	Garlock Style	Page	Garlock Style	Page	Garlock Style	Page
FIBROUS	200	21	333	54	333	54	430	81	99	67	531	81
	530	81	430	81	430	81	50	70	430	81	8199	81
	146	24	712	57	712	57	99	67	26	68	930	93
	732	77	255	59	255	59	26	68	31	69	928	92
	731	76	926	91	926	91	31	69	751	79	238	29
	245	22	929	92	929	92	333	54	66	73	732	77
	235	23	87	95	87	95	183	73	67	94	1005	49
	377	25	368	61	368	61	440	84	926	91	7279	139
	256	34	446	82	443	85	926	91	440	84		
	928	92	449	83	1900	86	87	95	980	87		
	931	93			1906	86	980	87	43	71		
	107	96			1907	86	960	87	35	72		
	358	27			Leather	127	965	87	Leather	127		
							Leather	127				
SEMI-METALLIC	935	144	7050	142	7050-C	143	7050	142	7050	142	935	144
	934	144	962	141	7050	142	962	141	962	141	934	144
	7050	142	968	141	962	141	968	141	968	141	915	146
	962	141	969	141	968	141	969	141	969	141	7050-C	143
	968	141	944	145	969	141	944	145	944	145	7050	142
	969	141	945	145	944	145	945	145	945	145	962	141
	944	145	916	146	945	145	916	146	916	146	968	141
	945	145			916	146					969	141
	916	146										
CASE METAL	821	148	805	148								
	805	148	808	148								
	808	148	809	148								
	809	148	861	148								
	861	148	806	148								
	806	148										

CENTRIFUGAL and ROTARY SHAFTS

FIBROUS	239	28	239	28	239	28	239	28	239	28	238	29
	249	28	249	28	730	75	646	30	646	30	930	93
	730	75	730	75	646	30	249	28	249	28	928	92
	646	30	646	30	249	28	99	67	26	68		
	928	92	926	91	926	91	926	91	31	69		
	931	93	929	92	929	92	929	92	926	91		
			991	98	991	98	751	79	751	79		
							66	73	66	73		
							991	98				
SEMI-METALLIC	935	144	7050	142	7050	142	7050	142	7050	142	935	144
	934	144	962	141	962	141	962	141	962	141	934	144
	7050	142	968	141	968	141	968	141	968	141	915	146
	962	141	969	141	969	141	969	141	969	141	7050	142
	968	141	944	145	944	145	944	145	944	145	962	141
	969	141	945	145	945	145	945	145	945	145	968	141
	916	146	916	146	916	146	916	146	916	146	969	141

Before selecting a style of packing from the above list please note carefully the introduction to these recommendations, which appears on Page 13 of this catalog.

Types and Styles of Garlock Packings Commonly Used on RECIPROCATING PISTON RODS, VALVE RODS, OUTSIDE PACKED PLUNGERS and RAMS

TYPE OF PACKING	GASOLINE and OIL—Cold		AIR		ACIDS (Weak) and CAUSTICS		ACIDS Strong		GAS		AMMONIA	
	Garlock Style	Page	Garlock Style	Page	Garlock Style	Page	Garlock Style	Page	Garlock Style	Page	Garlock Style	Page
FIBROUS	431	81	222	26	239	28	231	30	531	81	334	54
	7256	81	530	81	245	22	736	78	530	81	337	56
	927	91	245	22	235	23	924	93	731	76	556	55
	930	93	235	23	731	76			200	21	712	57
	238	29	731	76	991	98			550	55	255	59
	732	77	931	93	924	93						
	99	67			930	93						
	255	59			231	30						
	7279	139										
SEMI-METALLIC	7050-C	143	7050-C	143	7050	142	7050	142	7050-C	143	7050-C	143
	7050	142	7050	142	962	141	962	141	7050	142	7050	142
	962	141	962	141	968	141	968	141	944	145	944	145
	968	141	968	141	969	141	969	141	945	145	945	145
	969	141	969	141	916	146	916	146	916	146	916	146
	915	146	944	145								
			945	145								
			916	146								
CASE METAL			875	148	870	148	870	148	875	148	800	148
			805	148								
			808	148								
			809	148								
			861	148								
			806	148								
			821	148								

CENTRIFUGAL and ROTARY SHAFTS

FIBROUS	238	29	239	28	239	28	231	30	239	28	239	28
	927	91	931	93	245	22	736	78	731	76		
	930	93	731	76	235	23						
	99	67			731	76						
	751	79			991	98						
					930	93						
					231	30						
SEMI-METALLIC	7050	142	935	144	7050	142	7050	142	7050-C	143		
	962	141	7050	142	962	141	962	141	7050	142		
	968	141	944	145	968	141	968	141	962	141		
	969	141	945	145	916	146	916	146	968	141		
									969	141		
	915	146	916	146					941	147		
									944	145		
									945	145		
									916	146		

Before selecting a style of packing from the above list please note carefully the introduction to these recommendations, which appears on Page 13 of this catalog.

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Types and Styles of Garlock Packings Commonly Used on GLOBE and ANGLE VALVE STEMS

TYPE OF PACKING	STEAM High Pressure		STEAM Low Pressure		WATER Hot		WATER—Cold High Pressure		WATER—Cold Low Pressure		GASOLINE and OIL—Hot	
	Garlock Style	Page	Garlock Style	Page	Garlock Style	Page	Garlock Style	Page	Garlock Style	Page	Garlock Style	Page
FIBROUS	1700	37	117	31	117	31	117	31	117	31	1700	37
	17	32	115	31	115	31	115	31	115	31	1005	49
	256	34	646	30	646	30	646	30	646	30	930	93
	117	31	926	91	926	91	926	91	926	91	928	92
	115	31	929	92	929	92	929	92	333	54	531	81
	646	30	333	54	333	54	333	54	161	36	238	29
	928	92	160	36	160	36	160	36			117	31
	931	93	163	36	163	36	163	36			115	31
	166	35	166	35	166	35	161	36			166	35
	160	36					166	35				
	163	36										
SEMI-METALLIC	935	144	962	141	962	141	962	141	962	141	935	144
	934	144	968	141	968	141	968	141	968	141	934	144
	962	141	944	145	944	145	944	145	944	145	915	146
	968	141	945	145	945	145	945	145	945	145	7050	142
	944	145	916	146	916	146	916	146	916	146	962	141
	945	145									968	141
	916	146										

SHEET PACKINGS and GASKETS

SERVICE	SHEET PACKING		GASKET	
	Garlock Style	Page	Garlock Style	Page
STEAM High Pressure			555	112
	900	99	950	99
	7021	100	7022	100
	902	102	952	102
			604	113
	605	101	607	101
			601	114
			602	114
			6007	114
	625	102	627	102
STEAM Low Pressure	22	103	122	103
	24	104	124	104
	353	105	953	105
AIR High Pressure			555	112
	900	99	950	99
	902	102	952	102
AIR Low Pressure	353	105	953	105
	22	103	122	103
COLD WATER High Pressure			555	112
	22	103	122	103
	19	106	219	106
COLD WATER Low Pressure	22	103	122	103
	353	105	953	105
	660	108	661	108
	159	107		
	169	107		
	179	107		

Before selecting a style of packing from the above list please note carefully the introduction to these recommendations, which appears on Page 13 of this catalog.

Types and Styles of Garlock Packings Commonly Used on GLOBE and ANGLE VALVES

TYPE OF PACKING	GASOLINE and OIL—Cold		AIR		ACIDS (Weak) and CAUSTICS		ACIDS Strong		GAS		AMMONIA	
	Garlock Style	Page	Garlock Style	Page	Garlock Style	Page	Garlock Style	Page	Garlock Style	Page	Garlock Style	Page
FIBROUS	238	29	117	31	239	28	231	30	117	31	117	31
	927	91	115	31	1700	37	924	93	115	31	115	31
	930	93	17	32	924	93	160	36	1700	37	239	28
	1700	37	239	28	160	36	163	36	235	28	334	54
	117	31	160	36	163	36			239	28	160	36
	115	31	163	36					333	54	163	36
	431	81							160	36	161	36
	99	67							161	36		
	162	36										
	166	35										
SEMI-METALLIC	7050	142	7050	142	7050	142	7050	142	7050	142	7050	142
	962	141	962	141	962	141	962	141	962	141	962	141
	968	141	968	141	968	141	968	141	968	141	968	141
	915	146	944	145	916	146	916	146	944	145	944	145
			945	145					945	145	945	145
			916	146					916	146	916	146

SHEET PACKINGS and GASKETS

SERVICE	SHEET PACKING		GASKET	
	Garlock Style	Page	Garlock Style	Page
HOT WATER High Pressure			555	112
	22	103	122	103
	24	104	124	104
	353	105	953	105
HOT WATER Low Pressure	22	103	122	103
	353	105	953	105
OIL or GASOLINE Cold	902	102	952	102
	660	108	661	108
	353	105	953	105
	7601	138	7601	138
	7300	139	7300	139
	7797	139	7797	139
	7986	139	7986	139
	7228	139	7228	139
OIL or GASOLINE Hot	7021	100	7022	100
	7228	139	7228	139
	7300	139	7300	139
	7797	139	7797	139
	7986	139	7986	139
AMMONIA and VARIOUS ALKALI SOLUTIONS High Pressure			555	112
	900	99	950	99
	902	102	952	102
AMMONIA and VARIOUS ALKALI SOLUTIONS Low Pressure	353	105	953	105
	22	103	122	103
GAS High Pressure			555	112
	7021	100	7022	100
	900	99	950	99
	902	102	952	102
	625	102	627	102

Before selecting a style of packing from the above list please note carefully the introduction to these recommendations, which appears on Page 13 of this catalog.

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GARLOCK PACKINGS Commonly Used on Services Indicated

PUMP PISTON PACKING

SERVICE	GARLOCK Style	Page
HOT WATER	261 155 33 Special 33	63 123 46 64
COLD WATER	261 33 Special 33 155	63 46 64 123
CRUDE OIL, GASOLINE, MINERAL SEAL OIL	261 155 33 Special	63 123 46

PUMP VALVES

SERVICE	GARLOCK Style	Page
HOT WATER—High Temperatures and Pressures	108 156 155	121 121 121
WARM and COLD WATER—From 125 Pounds to 300 Pounds Pressure	188 7593	121 119
COLD WATER—From 75 Pounds to 125 Pounds Pressure	182 359 7862	121 121 119
COLD WATER—From 50 Pounds to 75 Pounds Pressure	139 175 189 7790 7505	121 121 121 119 119
GASOLINE, SYRUPS, AKLALI, LYE, etc.—High Temperatures and Pressures	108	121
HOT or COLD OIL—High Pressures	108 156 155	121 121 121
COLD OIL—From 75 Pounds to 125 Pounds Pressure	359 7797	121 139
CONDENSER	154 151 152 197 7224	121 121 121 121 119

DIAPHRAGM SHEETS

SERVICE	GARLOCK Style	Page
AIR, WATER, DRY NATURAL GAS—High Pressure	7677 7104	111 111
AIR, AMMONIA—High Pressure	7548	111
GASOLINE, OIL, WET NATURAL and MANUFACTURED GAS up to 150° F.—Medium Pressure	7598 7992	111 139
AIR, WATER, DRY NATURAL GAS—Medium Pressure	7715 619	110 110
GASOLINE, OIL, WET NATURAL and MANUFACTURED GAS up to 150° F.—Low Pressure	7603 7992	110 139
AIR, WATER, DRY NATURAL GAS—Low Pressure	7561 7543	110 109

LUBRICATING and GASKET COMPOUNDS

SERVICE	GARLOCK Style	Page
For Application to all kinds of Gaskets operating against Steam, Hot or Cold Gasoline, Oil, or Water	Compound No. 1	137
For Lubricating Rod Packings working against Steam, Hot or Cold Water and Water Solutions	Compound No. 2	136
For Lubricating Rod Packings working against Oil, Gasoline, Benzene, Ether, Carbon Tetrachloride and all Vapors and Chemicals of an Oily Nature	Compound No. 3	136
For Lubricating Rod Packings working against Steam or Water at temperatures up to 500° F.	Luball	137

Before selecting a style of packing from the above list please note carefully the introduction to these recommendations, which appears on Page 13 of this catalog.

GARLOCK PACKINGS commonly used in RAILROAD SERVICE

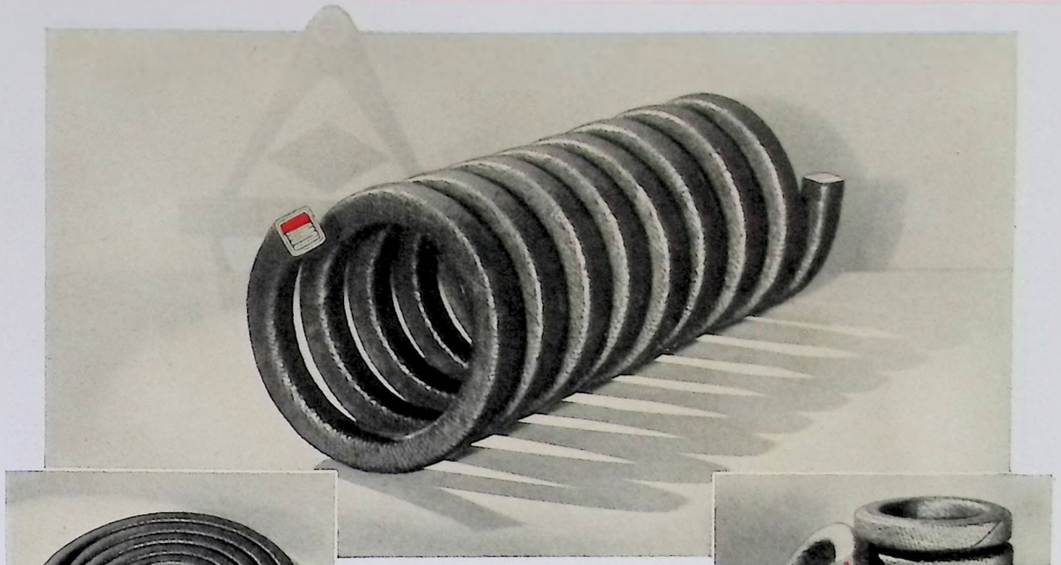
SERVICE	GARLOCK Style	Page
Locomotive Cab Cock and Valve Stem Packing	1700	37
Locomotive Throttle Packing	530 2000 3200	38 39 39
American Multiple Throttle Packing	9001	40
Locomotive Air Pump Packing	377 2200 2245 928	42 41 41 42
Locomotive Gauge Cock Discs	7751	50
Power Reverse Gear Cylinder Packing	1200 812 813-A Cups	44 44 44
Power Reverse Gear Piston Rod and Trunk Packing	530 Modified 1225 449-S 430	43 43 43 43
Locomotive Front End Tape	616 617	48 48
Standard Stoker Packing	377 343 7567	47 47 47
Feed Water Heater Piston Rod Packing	377 530 7091	45 45 45
Feed Water Heater Cylinder Packing	33 Special R.H. 108 Rings 261 260 R.H.	46 46 46 46
Locomotive and Booster Engine Ball Joint Packing	1010 and 1020 7114 Filler Rings	51 51
Locomotive Expansion Joint Packing	530 1005 and 1015 5250 5270	49 49 50 50
Insulation Tape	7771 7066	53 53
Gaskets for Railroad Service—		
Tank Hose	122	52
Booster Engines	950	52
Power Reverse Gears	952	52
Feed Water Heaters	7022 7597	52 52
Tank Car Dome Head and Outlet Cap	7158	52

Before selecting a style of packing from the above list please note carefully the introduction to these recommendations, which appears on Page 13 of this catalog.

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THE GARLOCK WARRANTY

• THE GARLOCK PACKING COMPANY GUARANTEES TO ITS CUSTOMERS THAT IT WILL REPLACE, FREE OF CHARGE INCLUDING TRANSPORTATION CHARGES BUT NOT COST OF INSTALLATION, ANY GARLOCK PRODUCT CLAIMED TO BE DEFECTIVE EITHER IN MATERIAL OR WORKMANSHIP WHEREBY IT IS NOT SUITABLE UNDER PROPER USAGE AND SERVICE FOR THE PURPOSE FOR WHICH DESIGNED, IF SO FOUND DEFECTIVE UPON EXAMINATION BY ITS REPRESENTATIVE.



GARLOCK 150 SPIRAL

GARLOCK 125 COIL

GARLOCK 200 RINGS

Construction—This high-pressure packing consists of a core of formed asbestos cloth and resilient rubber, wrapped with a cover of specially woven GARLOCK asbestos cloth. The packing is treated with a heat-resisting rubber friction and lubricated with a high-grade lubricant compounded to withstand extreme temperatures; it is furnished with an external coating of graphite.

Service—For general use against high temperatures. It is specially recommended for application to piston rods of steam engines, pumps, compressors and other similar equipment; for expansion joints, and for any other service against steam pressures up to 300 pounds per square inch.

Form—This material is obtainable in the three forms illustrated above—GARLOCK 150 Spiral, GARLOCK 125 Coil and GARLOCK 200 Ring.

GARLOCK 200 Rings are furnished cut and formed in any size to fit rod and stuffing box dimensions. When ordering, specify inside diameter, outside diameter, and quantity required.

GARLOCK 125 Coil and GARLOCK 150 Spiral are furnished in standard 12½-foot lengths and are manufactured in all packing sizes from ⅛" to 1½", advancing by sixteenths. Approximate footage and approximate weight per box of a few standard sizes are shown below:

GARLOCK 125 Coil

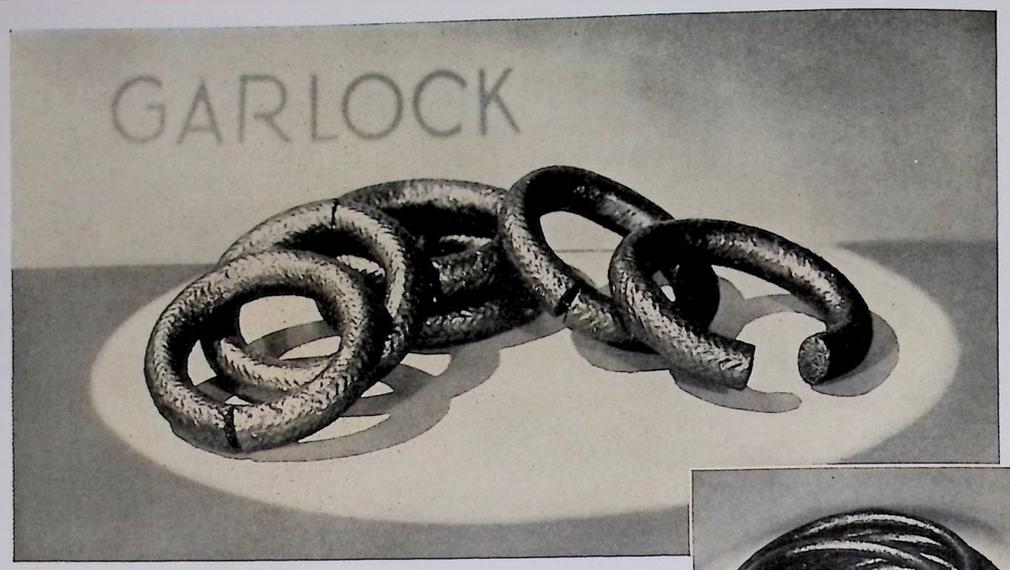
Size	Feet per Box	Weight per Box
1/4"	75 ft.	4 5/8 lbs.
3/8"	50 ft.	6 1/4 lbs.
1/2"	50 ft.	11 lbs.
5/8"	37 1/2 ft.	12 3/8 lbs.
3/4"	25 ft.	12 1/8 lbs.
7/8"	12 1/2 ft.	8 3/8 lbs.
1"	12 1/2 ft.	10 3/8 lbs.

GARLOCK 150 Spiral

Size	Feet per Box	Weight per Box
1/4"	12 1/2 ft.	3/4 lbs.
3/8"	12 1/2 ft.	1 3/8 lbs.
1/2"	12 1/2 ft.	2 3/4 lbs.
5/8"	12 1/2 ft.	4 1/8 lbs.
3/4"	12 1/2 ft.	6 1/8 lbs.
7/8"	12 1/2 ft.	8 3/8 lbs.
1"	12 1/2 ft.	10 3/8 lbs.

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ROUND DERBY PACKING



GARLOCK 245 RINGS



GARLOCK
243 COIL

Construction—GARLOCK Round Derby Packing is manufactured from Canadian long fibre asbestos yarn by the braid over braid method. It receives a lubrication and graphite treatment which, by a special process, is impregnated into every strand, making a soft and pliable material.

Service—Recommended for service on piston rods of pumps handling steam, acids, gas, lye or caustic soda.

Form—GARLOCK Round Derby Packing is obtainable in the two forms illustrated above—GARLOCK 243 Coil and GARLOCK 245 Ring.

GARLOCK 245 Rings are cut from GARLOCK 243 Coil in any specified size to fit rod and stuffing box dimensions.

GARLOCK 243 Coil is manufactured in sizes from ¼″ to 1⅜″. Can be furnished in coil lengths or in continuous length on a reel.

The table below indicates the number of coils, number of feet and approximate weight per box of a few standard sizes:

GARLOCK 243 Coil

Size	Coils per Box	Feet per Box	Weight per Box
¼″	4	152 ft.	5 lbs.
⅜″	3	60 ft.	5 lbs.
½″	4	68 ft.	10 lbs.
⅝″	3	51 ft.	10 lbs.
¾″	3	31½ ft.	10 lbs.
⅞″	3	21 ft.	10 lbs.
1″	2	21 ft.	10 lbs.



GARLOCK 233 COIL



GARLOCK
235 RINGS

Construction—GARLOCK Square Derby Packing is manufactured from Canadian long fibre asbestos yarn by the braid over braid method. It receives a lubrication and graphite treatment which, by a special process, is impregnated into every strand, making a soft and pliable material.

Service—Recommended for service on piston rods of pumps handling steam, acids, gas, lye or caustic soda.

Form—GARLOCK Square Derby Packing is obtainable in the two forms illustrated above—GARLOCK 233 Coil and GARLOCK 235 Ring.

GARLOCK 235 Rings are cut from GARLOCK 233 Coil in any specified size to fit rod and stuffing box dimensions.

GARLOCK 233 Coil is manufactured in all packing sizes from ¼″ to 1¼″, advancing by sixteenths. Can be furnished in coil lengths or in continuous length on reel.

The table below indicates the number of coils, number of feet and approximate weight per box of a few standard sizes:

GARLOCK 233 Coil

Size	Coils per Box	Feet per Box	Weight per Box
¼″	4	132 ft.	5 lbs.
⅜″	3	60 ft.	5 lbs.
½″	4	60 ft.	10 lbs.
⅝″	3	30 ft.	10 lbs.
¾″	3	25 ft.	10 lbs.
⅞″	3	21 ft.	10 lbs.
1″	2	15½ ft.	10 lbs.

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GARLOCK 145 SPIRAL



GARLOCK
146 RINGS



GARLOCK
144 COIL

Construction—This high-pressure packing consists of a center core of a resilient red rubber wrapped with covers of specially woven GARLOCK asbestos cloth. The packing is treated with a heat-resisting rubber friction and lubricated with a high-grade lubricant, compounded to withstand extreme temperatures; it is finished with a surface coating of graphite.

Service—For general use against high temperatures. Particularly recommended for service against saturated steam pressures up to 300 pounds per square inch, and in stuffing boxes in which condensation is present in considerable quantity.

Form—This material is obtainable in the three forms illustrated above—GARLOCK 145 Spiral, GARLOCK 144 Coil and GARLOCK 146 Ring.

GARLOCK 146 Rings are furnished cut and formed in any specified size to fit rod and stuffing box dimensions.

GARLOCK 145 Spiral and GARLOCK 144 Coil are furnished in standard 12½-foot lengths and are manufactured in all packing sizes from 3/16" to 1½", advancing by sixteenths.

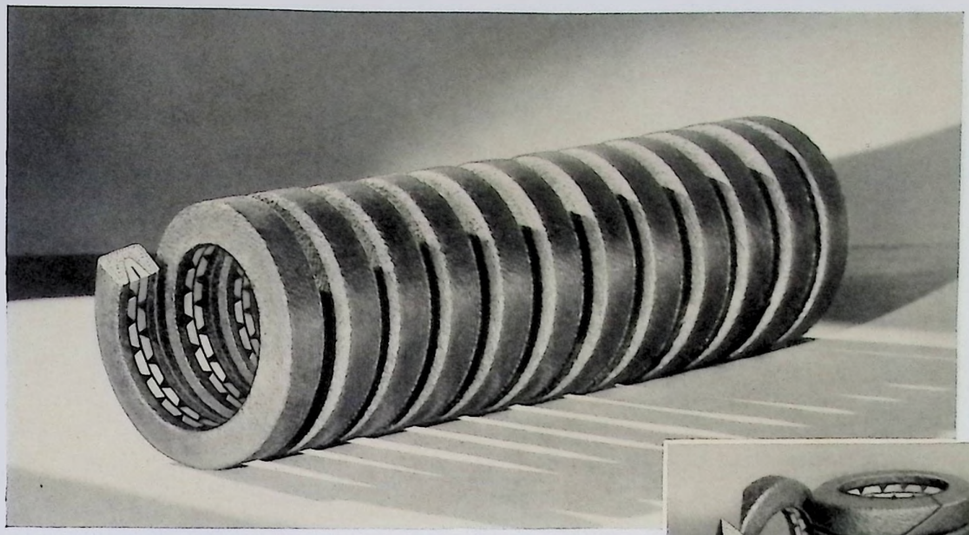
Approximate footage and approximate weight per box of a few standard sizes are shown below:

GARLOCK 144 Coil

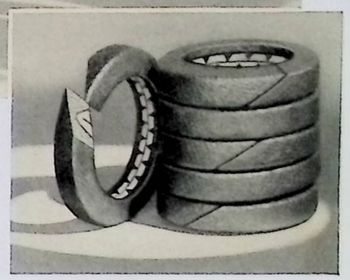
Size	Feet per Box	Weight per Box
¼"	75 ft.	4 5/16 lbs.
3/8"	50 ft.	6½ lbs.
½"	50 ft.	11½ lbs.
5/8"	37½ ft.	12 lbs.
¾"	25 ft.	11 3/4 lbs.
7/8"	12½ ft.	7¾ lbs.
1"	12½ ft.	10 5/16 lbs.

GARLOCK 145 Spiral

Size	Feet per Box	Weight per Box
¼"	12½ ft.	1 1/16 lbs.
3/8"	12½ ft.	1 5/8 lbs.
½"	12½ ft.	2 3/4 lbs.
5/8"	12½ ft.	4 lbs.
¾"	12½ ft.	5 7/8 lbs.
7/8"	12½ ft.	7¾ lbs.
1"	12½ ft.	10 5/16 lbs.



GARLOCK 377 SPIRAL



GARLOCK
377 RINGS

Construction—GARLOCK Metalmarine Packing consists of a nonfrictional, soft metal core with side walls, back and cushion of rubberized asbestos cloth. The special design of the metal core provides a number of small wearing surfaces so staggered as to give a pressure tight bearing on the rod. This material is supplied lubricated and with a surface graphiting.

Service—Recommended for general steam engine service, particularly on piston rods of main engines on steamships, deck engines, hoisting engines, steam shovels and dredges, steam hammers and kickers and steam niggers in the lumber industry.

Form—This material is obtainable in the two forms illustrated above—GARLOCK 377 Spiral and GARLOCK 377 Ring.

GARLOCK 377 Rings are furnished cut and formed in any specified size to fit rod and stuffing box dimensions.

GARLOCK 377 Spiral is furnished in standard 12½-foot lengths and is manufactured in all packing sizes from ¼" to 1 1/8", advancing by sixteenths.

Packed one spiral per box, the following list indicates the approximate net weights of a few standard sizes:

GARLOCK 377 Spiral

Size	Weight per Box	Size	Weight per Box
¼"	1 1/16 lbs.	¾"	10 1/8 lbs.
3/8"	3 1/8 lbs.	7/8"	14 lbs.
½"	5½ lbs.	1"	19 1/8 lbs.
5/8"	7 5/16 lbs.		

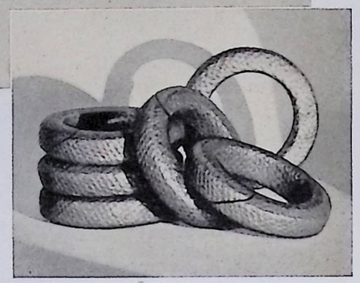
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COMPRESSOR PACKING





GARLOCK 221 SPIRAL



GARLOCK 220 COIL

GARLOCK 222 RING

Construction—GARLOCK Compressor Packing consists of a core of formed asbestos fabric, wrapped with a cover of specially woven GARLOCK asbestos cloth. The packing is treated with a heat-resisting rubber friction and lubricated with a special lubricant compounded to withstand extreme temperature; it is furnished with an external coating of graphite.

Service—For general use against high temperature. Particularly constructed for the severe service encountered in air and gas compressor work.

Form—GARLOCK Compressor Packing is produced in three forms—GARLOCK 221 Spiral, GARLOCK 220 Coil and GARLOCK 222 Ring.

GARLOCK 222 Rings are furnished cut and formed in any specified size to fit rod and stuffing box dimensions.

GARLOCK 220 Coil and GARLOCK 221 Spiral are furnished in standard 12½-foot lengths and are manufactured in all packing sizes from ⅛" to 1½", advancing by sixteenths.

Approximate footage and weight per box of a few standard sizes are indicated in the following table:

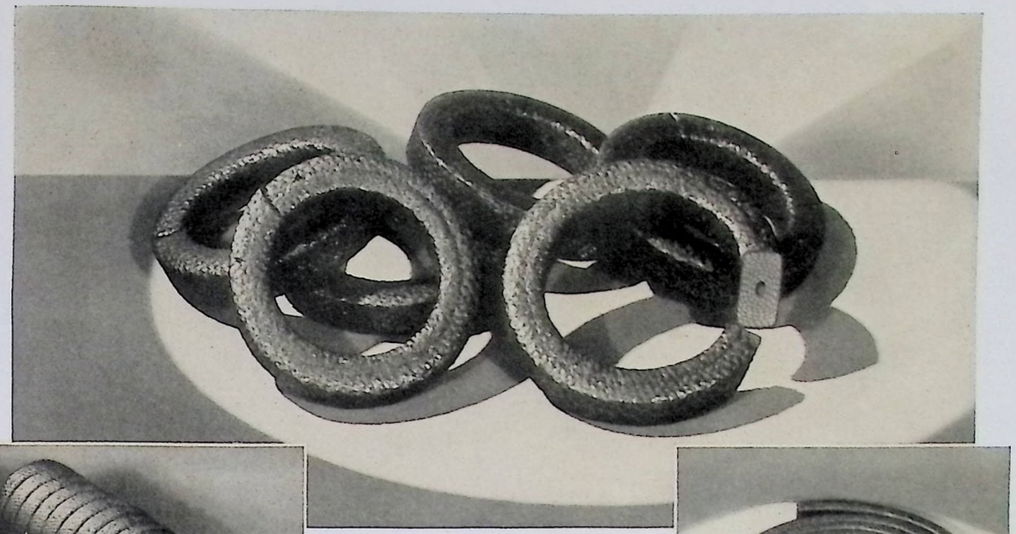
GARLOCK 220 Coil

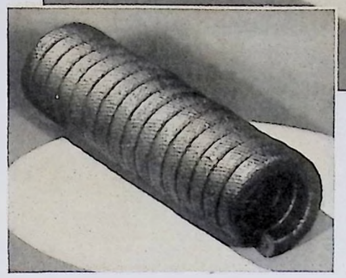
Size	Feet per Box	Weight per Box
¼"	75 ft.	4 5/16 lbs.
3/8"	50 ft.	6¼ lbs.
½"	50 ft.	11 lbs.
5/8"	37½ ft.	12 lbs.
¾"	25 ft.	11 lbs.
7/8"	12½ ft.	6 5/8 lbs.
1"	12½ ft.	9½ lbs.

GARLOCK 221 Spiral

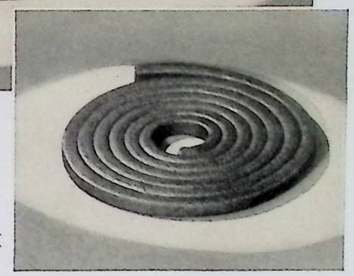
Size	Feet per Box	Weight per Box
¼"	12½ ft.	¾ lbs.
3/8"	12½ ft.	1 9/16 lbs.
½"	12½ ft.	2¾ lbs.
5/8"	12½ ft.	4 lbs.
¾"	12½ ft.	5½ lbs.
7/8"	12½ ft.	6 5/8 lbs.
1"	12½ ft.	9½ lbs.

"O" CENTER FORGE PACKING





GARLOCK 358 RINGS



GARLOCK 357 SPIRAL

GARLOCK 356 COIL

Construction—GARLOCK "O" Center Forge Packing is constructed of specially woven GARLOCK asbestos cloth frictioned with a tenacious rubber cement and formed with a hollow center. It is lubricated with a high-grade lubricant compounded to withstand high temperatures, and is finished with an external coating of graphite.

Service—Recommended for use against high temperatures particularly where extreme vibration or lateral motion, requiring a resilient packing, is encountered. Extensively used on the rods of steam hammers.

Form—This material is obtainable in the three forms illustrated above—GARLOCK 357 Spiral, GARLOCK 356 Coil and GARLOCK 358 Ring.

GARLOCK 358 Rings are furnished cut and formed in practically any size to fit rod and stuffing box dimensions.

GARLOCK 356 Coil and GARLOCK 357 Spiral are furnished in standard 12½-foot lengths and are manufactured in all packing sizes from ¼" to 1½", advancing by sixteenths.

Approximate footage and approximate weight per box of a few standard sizes are shown below:

GARLOCK 356 Coil

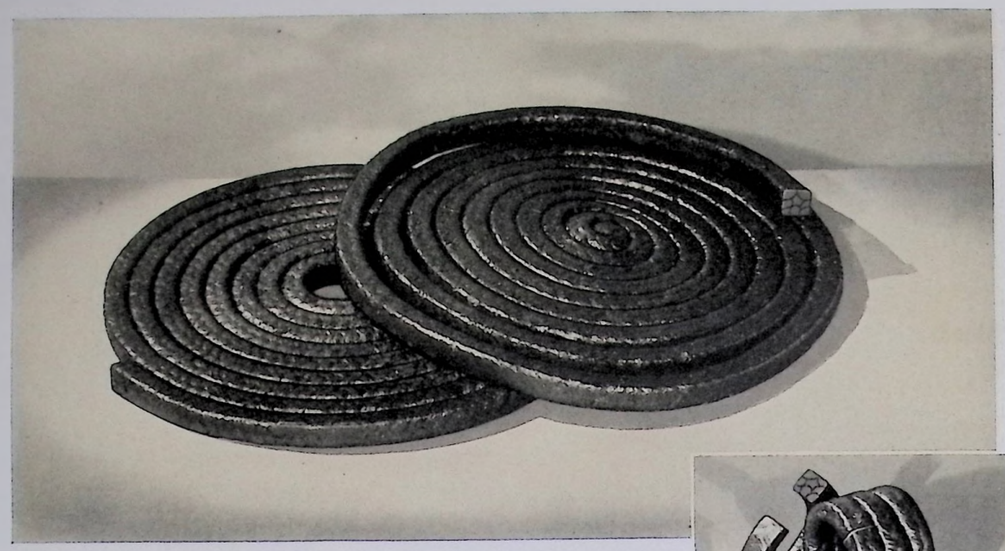
Size	Feet per Box	Weight per Box
¼"	75 ft.	4 3/8 lbs.
3/8"	50 ft.	5¾ lbs.
½"	50 ft.	10½ lbs.
5/8"	37½ ft.	11¼ lbs.
¾"	25 ft.	10 3/8 lbs.
7/8"	12½ ft.	6 7/8 lbs.
1"	12½ ft.	9 3/8 lbs.

GARLOCK 357 Spiral

Size	Feet per Box	Weight per Box
¼"	12½ ft.	¾ lbs.
3/8"	12½ ft.	1 7/8 lbs.
½"	12½ ft.	2 5/8 lbs.
5/8"	12½ ft.	3 3/4 lbs.
¾"	12½ ft.	5½ lbs.
7/8"	12½ ft.	6 7/8 lbs.
1"	12½ ft.	9 3/8 lbs.

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ROTOPAC ROTARY PUMP PACKING



GARLOCK 234 COIL
GARLOCK 244 COIL (*with wire*)



GARLOCK 239 RINGS
GARLOCK 249 RINGS
(*with wire*)

Construction—GARLOCK Rotopac Packing is manufactured from long fibre asbestos yarn, either with or without fine wire insertion, braided square by the same method used in producing flax packing. It receives a lubrication and graphite treatment which, by a special process, is impregnated into each strand of the material.

Service—Rotopac is a high-grade centrifugal or rotary pump packing recommended for service against hot or cold water, caustic solutions and weak acids.

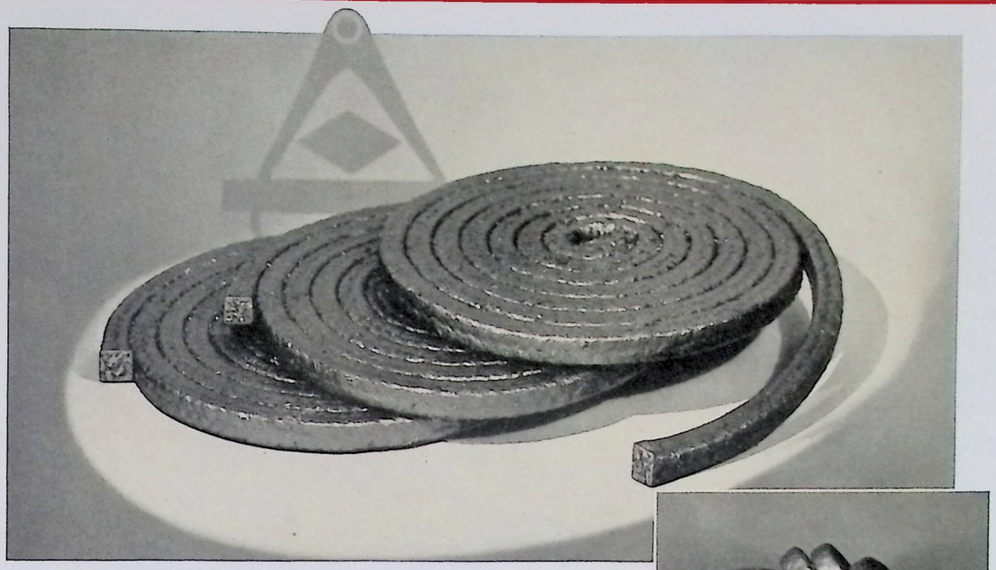
Form—GARLOCK 234 Coil, without wire, and GARLOCK 244 Coil, with wire insertion, are manufactured in all packing sizes from $\frac{1}{8}$" to $1\frac{1}{4}$", advancing by sixteenths. Both GARLOCK 234 and GARLOCK 244 can be furnished in continuous lengths on reels.

GARLOCK 239 Ring, without wire, and GARLOCK 249 Ring, with wire insertion, are cut, respectively, from GARLOCK 234 and GARLOCK 244 Coil. These rings are furnished in any specified size to fit rod and stuffing box dimensions.

The table below indicates the number of coils, approximate footage and weight per box of a few standard coil sizes:

ROTOPAC Coil

Size	Coils per Box		Feet per Box		Weight per Box	
	234	244	234	244	234	244
$\frac{1}{4}$"	5	5	120 ft.	120 ft.	5 lbs.	$6\frac{7}{8}$ lbs.
$\frac{3}{8}$"	4	3	108 ft.	81 ft.	$10\frac{1}{2}$ lbs.	$10\frac{3}{4}$ lbs.
$\frac{1}{2}$"	3	3	60 ft.	60 ft.	$10\frac{1}{4}$ lbs.	$13\frac{1}{2}$ lbs.
$\frac{5}{8}$"	3	2	48 ft.	32 ft.	$13\frac{1}{8}$ lbs.	11 lbs.
$\frac{3}{4}$"	2	2	28 ft.	28 ft.	10 lbs.	$13\frac{1}{16}$ lbs.
$\frac{7}{8}$"	2	2	24 ft.	24 ft.	$11\frac{5}{8}$ lbs.	$15\frac{3}{4}$ lbs.
1"	1	1	19 ft.	19 ft.	$13\frac{1}{2}$ lbs.	$16\frac{1}{8}$ lbs.



GARLOCK 237 COIL



GARLOCK
238 RINGS

Construction—GARLOCK Thorndyke Packing is manufactured from long fibre asbestos, braided square by the same method used in producing flax packing. It is lubricated and graphited throughout.

Service—Developed and recommended for service on the shafts of centrifugal and rotary pumps handling cold oil or gasoline.

Form—GARLOCK Thorndyke Packing is obtainable in two forms—GARLOCK 237 Coil and GARLOCK 238 Ring.

GARLOCK 238 Rings are cut from GARLOCK 237 Coil in any specified size to fit rod and stuffing box dimensions.

GARLOCK 237 Coil is manufactured in sizes from $\frac{1}{8}$" to $1\frac{1}{4}$", advancing by sixteenths. Can be furnished in coil lengths or in continuous length on reel.

The table below indicates the number of coils, number of feet and approximate weight per box of a few standard sizes:

GARLOCK 237 Coil

Size	Coils per Box	Feet per Box	Weight per Box
$\frac{1}{4}$"	5	115 ft.	5 lbs.
$\frac{3}{8}$"	4	$108\frac{2}{3}$ ft.	$10\frac{5}{16}$ lbs.
$\frac{1}{2}$"	3	63 ft.	$10\frac{11}{16}$ lbs.
$\frac{5}{8}$"	3	$44\frac{1}{4}$ ft.	$12\frac{3}{4}$ lbs.
$\frac{3}{4}$"	2	27 ft.	$9\frac{11}{16}$ lbs.
$\frac{7}{8}$"	2	$22\frac{2}{3}$ ft.	$10\frac{11}{16}$ lbs.
1"	1	$19\frac{3}{4}$ ft.	$13\frac{5}{16}$ lbs.

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PACIFIC SEMI-METALLIC PACKING

GARLOCK 644 COIL
GARLOCK 646 RING

Construction—Pacific Semi-Metallic Packing is manufactured from long fibre asbestos yarn and soft metal strands, braided square by the same method used in producing flax packing. It is thoroughly lubricated and graphited.

Service—Recommended for general service on centrifugal pumps.

Form—This material is supplied in two forms, GARLOCK 644 Coil and GARLOCK 646 Ring.

GARLOCK 646 Rings are cut from GARLOCK 644 Coil and are furnished to fit any rod and stuffing box dimensions.

GARLOCK 644 Coil is manufactured in all packing sizes from 3/16" to 1 1/4", advancing by sixteenths.

The table below indicates the number of coils, number of feet and approximate weight per box of a few standard sizes.

GARLOCK 644 COIL

Size	Coils per Box	Feet per Box	Weight per Box
1/4"	1	74 ft.	9 1/4 lbs.
5/16"	1	36 ft.	10 1/2 lbs.
3/8"	1	25 ft.	11 1/2 lbs.
1/2"	1	14 1/2 ft.	10 lbs.
5/8"	1	13 3/4 ft.	12 1/2 lbs.
3/4"	1	10 ft.	12 3/4 lbs.
7/8"	1		

HORNBLENDE ACID PACKING

GARLOCK 230 COIL
GARLOCK 231 RING

Construction—GARLOCK Hornblende Acid Packing is manufactured from pure Blue Cape asbestos, braided square by the same method used in producing flax packings. It receives a thorough lubrication and graphite treatment.

Service—Developed and recommended for service on the shafts of centrifugal and rotary pumps handling acids and strong chemical solutions.

Form—GARLOCK Hornblende Acid Packing is obtainable in two forms—GARLOCK 230 Coil and GARLOCK 231 Ring.

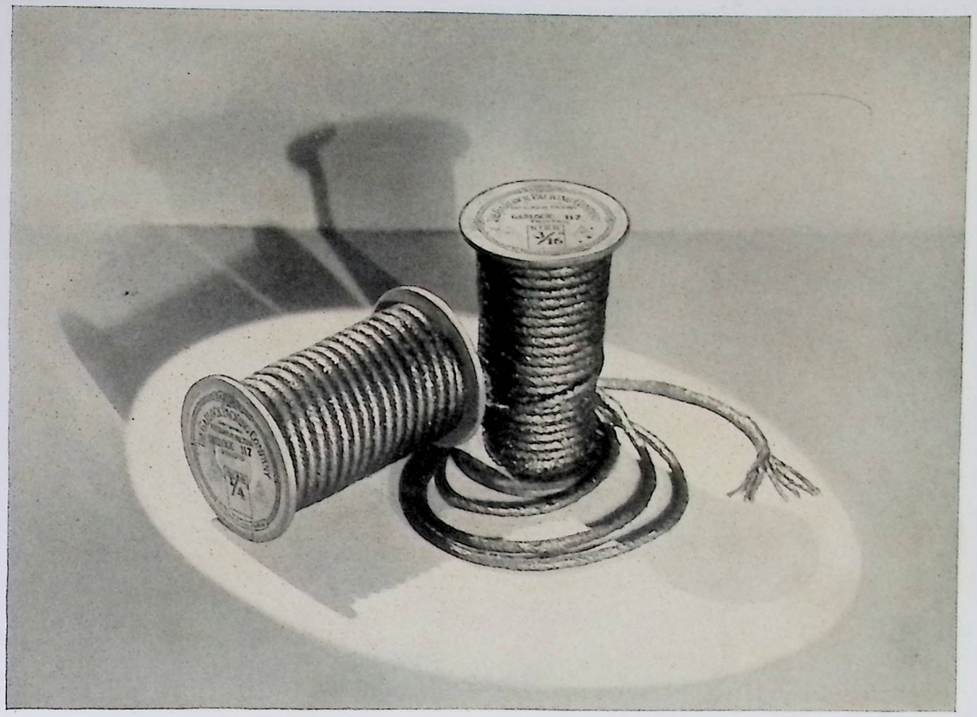
GARLOCK 231 Rings are cut from GARLOCK 230 Coil in any specified size to fit rod and stuffing box dimensions.

GARLOCK 230 Coil is manufactured in all packing sizes from 3/16" to 1 1/4", advancing by sixteenths. Can be furnished in coil lengths or in continuous lengths on reel.

The table below indicates the number of coils, number of feet and approximate weight per box of a few standard sizes:

GARLOCK 230 COIL

Size	Coils per Box	Feet per Box	Weight per Box
1/4"	4	90 2/3 ft.	5 3/8 lbs.
3/8"	3	81 ft.	10 1/8 lbs.
1/2"	3	63 ft.	12 1/16 lbs.
5/8"	2	32 ft.	11 1/8 lbs.
3/4"	2	28 ft.	10 1/4 lbs.
7/8"	2	22 ft.	13 1/2 lbs.
1"	1	19 3/4 ft.	16 3/8 lbs.



GARLOCK 117 ROUND BEAVER PACKING
GARLOCK 115 SQUARE BEAVER PACKING

Construction—GARLOCK Beaver Packing is manufactured from long fibre asbestos yarn, thoroughly lubricated with a heat-resisting compound and graphite.

Service—Recommended for use on stems of globe and angle valves operating against high-pressure steam, hot or cold water, or oil.

Form—GARLOCK 117 Round Beaver Packing is furnished either braided or twisted as specified. GARLOCK 115 Square Beaver Packing is furnished braided only. All styles are made in standard sizes from 1/16" to 3/4", advancing by sixteenths.

GARLOCK 117 and GARLOCK 115 are packaged on 1-pound, 2-pound and 5-pound spools. Maximum size packaged on 1-pound spools is 3/8"; maximum size on 2-pound spools is 1/2"; sizes in excess of 1/2" are packaged on 5-pound spools.

Approximate weight per hundred feet of some standard sizes of GARLOCK 117 Round Beaver Packing, both braided and twisted, are listed below:

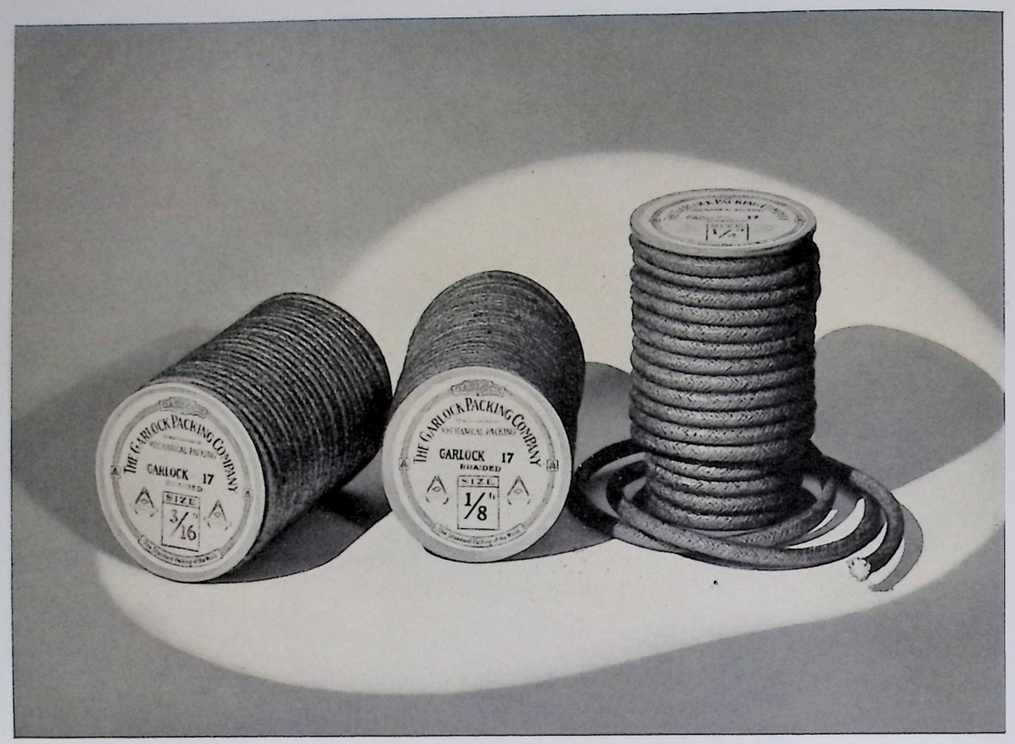
GARLOCK 117 Braided

Size	Weight per Hundred Feet
1/16"	.25 lbs.
1/8"	.875 lbs.
1/4"	3.5 lbs.
3/8"	7.125 lbs.
1/2"	14.125 lbs.
5/8"	20.125 lbs.
3/4"	28.125 lbs.

GARLOCK 117 Twisted

Size	Weight per Hundred Feet
1/16"	.3125 lbs.
1/8"	1.125 lbs.
1/4"	4.0625 lbs.
3/8"	7.375 lbs.
1/2"	12.75 lbs.
5/8"	19.875 lbs.
3/4"	30.0625 lbs.

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GARLOCK 17

Construction—Garlock 17 is a braided asbestos packing, produced from Canadian long fibre asbestos yarn. It is treated with a heat-resisting compound and is regularly supplied with a surface lubrication of graphite.

Service—A satisfactory valve stem packing for use on small angle and globe valves, or any mechanical equipment where the stuffing boxes are small and difficult to keep steam tight. Will give long service in high-pressure work.

Form—This material is regularly furnished round in cross section. It can be furnished, however, in square form if desired; standard sizes from 1/16" to 1¼", advancing by thirty-seconds.

Usual method of packaging is on 1, 2 or 5-pound spools. Maximum size supplied on 1-pound spools is 3/8"; maximum size on 2-pound spools is ½". All sizes in excess of ½" are furnished on 5-pound spools.

Approximate weights per hundred feet of a few standard round sizes are listed below:

GARLOCK 17

Size	Weight per Hundred Feet	Size	Weight per Hundred Feet
1/16"	.1875 lbs.	5/8"	14.375 lbs.
1/8"	.5 lbs.	3/4"	21.5 lbs.
1/4"	2.375 lbs.	7/8"	29.125 lbs.
3/8"	5.125 lbs.	1"	37.625 lbs.
1/2"	7.875 lbs.		

MILL PACKING—WIRE COVERED

GARLOCK 247 COIL
GARLOCK 250 RING

Construction—Garlock Mill Packing—Wire Covered—consists of a braided core of wire inserted asbestos yarn, with a cover of fine copper wire. Both the core and the copper wire cover are made by the braid over braid method. The packing is regularly supplied lubricated and graphited.

Service—Recommended for steam and oil conditions at high temperatures and for the piston rods of gas engines.

Form—Garlock Mill Packing—Wire Covered—is produced in two forms—Garlock 247 Coil and Garlock 250 Ring.

Garlock 250 Rings are cut from Garlock 247 Coil in any specified size to fit rod and stuffing box.

Garlock 247 Coil is furnished in all packing sizes from 1/4" to 1½", advancing by sixteenths. In addition to coil lengths, it can also be furnished in continuous length on reels.

Approximate footage and weight per box of a few standard sizes are listed below:

GARLOCK 247 COIL

Size	Coils per Box	Feet per Box	Weight per Box
1/4"	4	128 ft.	10 lbs.
3/8"	3	57 ft.	10 lbs.
1/2"	3	39¾ ft.	10 lbs.
5/8"	3	27 ft.	10 lbs.
3/4"	2	18 ft.	10 lbs.
7/8"	2	13 ft.	10 lbs.
1"	2	10½ ft.	10 lbs.

MILL PACKING

GARLOCK 248 COIL
GARLOCK 251 RING

Construction—Garlock Mill Packing is manufactured from high-grade, wire inserted asbestos yarn. It is braided square by the braid over braid method and is regularly supplied lubricated and graphited.

Service—Recommended for steam and oil conditions at high temperatures and for the piston rods of gas engines.

Form—Garlock Mill Packing is produced in two forms—Garlock 248 Coil and Garlock 251 Ring.

Garlock 251 Rings are cut from Garlock 248 Coil in any specified size to fit rod and stuffing box dimensions.

Garlock 248 Coil is furnished in all packing sizes from 3/16" to 1½", advancing by sixteenths. In addition to coil lengths, it can also be furnished in continuous length on reels.

Approximate footage and approximate weight per box of a few standard sizes are indicated below:

GARLOCK 248 COIL

Size	Coils per Box	Feet per Box	Weight per Box
1/4"	5	190 ft.	10 lbs.
3/8"	3	84 ft.	10 lbs.
1/2"	3	46½ ft.	10 lbs.
5/8"	3	30 ft.	10 lbs.
3/4"	2	20 ft.	10 lbs.
7/8"	2	15½ ft.	10 lbs.
1"	2	13 ft.	10 lbs.

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ASBESTOS PACKINGS WITH WIRE

FURNACE DOOR PACKING

GARLOCK 252

Construction—GARLOCK 252 consists of a braided core of wire inserted asbestos yarn with a braided cover of fine copper wire. It is unlubricated.

Service—Recommended for use on furnace doors in steel mills, glass plants, blast furnaces and foundries.

Form—GARLOCK 252 is furnished in all packing sizes from ¼" to 1½" advancing by sixteenths; supplied in coil lengths or in continuous lengths on reels.

EXPANSION JOINT AND VALVE PACKING

GARLOCK 256

Construction—GARLOCK 256 is a copper wire inserted asbestos packing braided square and lubricated with a high-grade mineral oil and graphited throughout. The amount of lubricant in the packing is carefully controlled, providing ample for lubrication of moving parts but eliminating excess lubrication which is undesirable in service against high temperatures and pressures.

Service—GARLOCK 256 is recommended for general high temperature service, particularly on expansion joints and as a stem packing on steel valves.

Form—GARLOCK 256 Coil is supplied in all packing sizes from 3/16" to 1¼" advancing by sixteenths. GARLOCK 256 Rings are supplied in any specified size.

WIRE WOUND PACKING

GARLOCK 114 COIL
GARLOCK 116 RING

Construction—GARLOCK 114 is a high-grade asbestos packing having a non-vulcanizing rubber core and a cover of braided copper wire.

Service—Recommended for service on all engines exposed to the weather, such as deck engines in marine service.

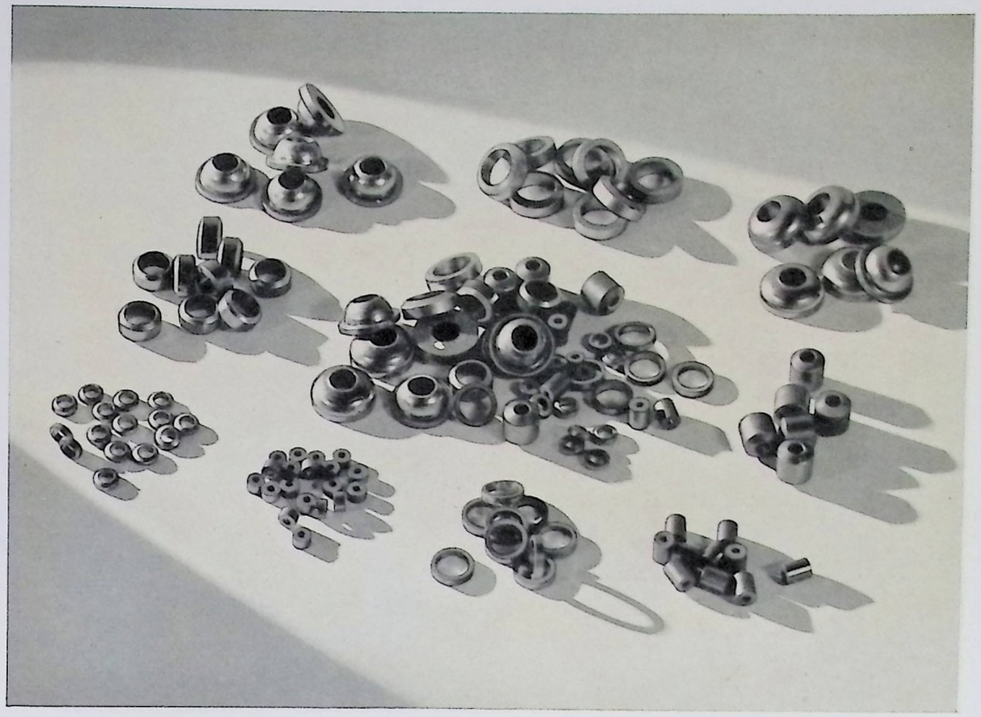
Form—GARLOCK 114 Coil is regularly furnished oval in cross section, but is also obtainable in round or square cross section. Standard sizes from ¼" to 1".

GARLOCK 116 Rings, cut from GARLOCK 114 Coil, are furnished in any specified size.

Approximate weight and footage per box of some standard sizes are shown below:

GARLOCK 114 COIL

Size	Coils per Box	Feet per Box	Weight per Box
¼"	3	120 ft.	10 lbs.
3/8"	3	60 ft.	10 lbs.
½"	2	32 ft.	10 lbs.
5/8"	2	27 ft.	10 lbs.
¾"	2	20 ft.	10 lbs.
7/8"	2	17½ ft.	10 lbs.
1"	1	11½ ft.	10 lbs.



GARLOCK 166 RINGS

Construction—GARLOCK 166 Silvex Molded Rings are manufactured from a combination of asbestos, powdered aluminum, graphite and neoprene, molded into accurately sized rings with exceedingly smooth surface finish. The dense, semiflexible compound from which these rings are formed is an exclusive development of The GARLOCK Packing Company.

Service—Because of their noncorrosive qualities, their resistance to hot and cold water, steam, gasoline, kerosene, oils, refrigerating gases and mild acids, and their ability to withstand temperatures up to 750° F., GARLOCK 166 Rings are suitable for universal application on almost any equipment requiring an accurately fitting, easily assembled packing. Common usages for these rings are on electric refrigerators; gas, gasoline and kerosene lamps, stoves, heaters and other appliances; automobile fittings; and small valves, faucets or cocks of every description.

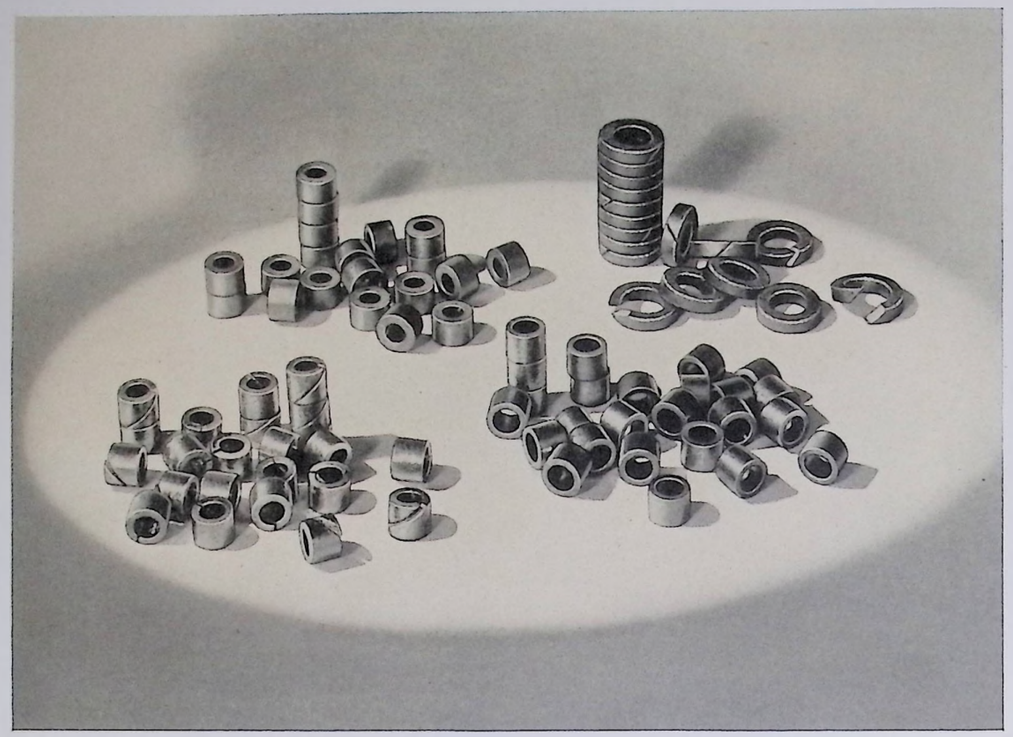
Form—GARLOCK 166 Silvex Rings are furnished in solid rings only. They are not furnished cut open. Size limitations applying to these rings are: minimum inside diameter 5/64"; maximum inside diameter 1½"; minimum outside diameter 5/32"; maximum outside diameter 2"; minimum wall thickness (packing space) 3/64"; minimum ring thickness (depth) 1/8".

Beveled rings, and rings with radii or curved surfaces to fit contours of curved fittings, are obtainable. Odd shapes, which are practicable from a manufacturing standpoint, are obtainable.

GARLOCK 166 Rings are supplied in minimum quantities of 500 rings of one size on a single order.

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MOLDED VALVE RINGS



GARLOCK 160—RUBBERIZED
GARLOCK 161—WAXED
GARLOCK 162—FOR GASOLINE
GARLOCK 163—OIL AND GRAPHITE

Construction—GARLOCK 160, 161, 162, and 163 Molded Valve Rings are manufactured from braided, wire inserted asbestos stock, formed around a crinkled lead center. Each ring is molded to exact size and shape. All rings have graphite finish.

Service—These molded valve rings are recommended for use on valves, faucets, steam traps and power appliances or specialties of all kinds.

GARLOCK 160 Rings are suitable for steam, hot or cold water, and acids.

GARLOCK 161 Rings, which are relatively soft, are recommended for cold water applications.

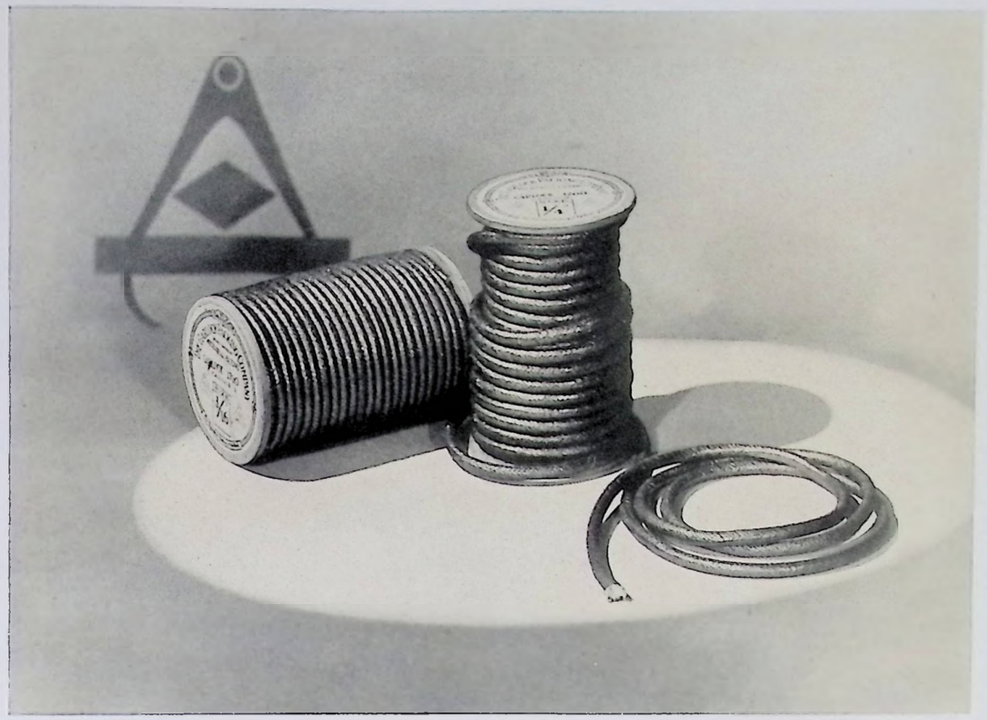
GARLOCK 162 Rings are specially treated for gasoline service.

GARLOCK 163 Rings are for application to brass valves or fittings in steam, hot or cold water, or acid service.

Form—All types of these rings are available in a large range of sizes. All rings are cut open with a bevel joint. Solid rings are not furnished.

Orders for small quantities are accepted subject to a special charge to cover the expense of machine setup.

Coil Form—GARLOCK 160, 161, 162 and 163 material is also available in coil form, packaged on 1-pound, 2-pound and 5-pound spools. Coil is furnished square or rectangular in cross section and is governed by the following size limitations: minimum packing space is 1/16"; minimum thickness is 1/8"; maximum packing space is 1/4"; maximum thickness is not less than the width of the packing space and may be increased within reasonable limitations.



GARLOCK 1700

Construction—GARLOCK 1700 is braided from Canadian long fibre asbestos yarn. It receives an external graphite treatment.

Service—Recommended for service on locomotive cab cocks and on other valve stems handling high-temperature and superheated steam and oils. It is also recommended for use on valve stems operating on acid lines.

Form—GARLOCK 1700 is furnished round in cross section; standard sizes from 1/16" to 1 1/4", advancing by thirty-seconds.

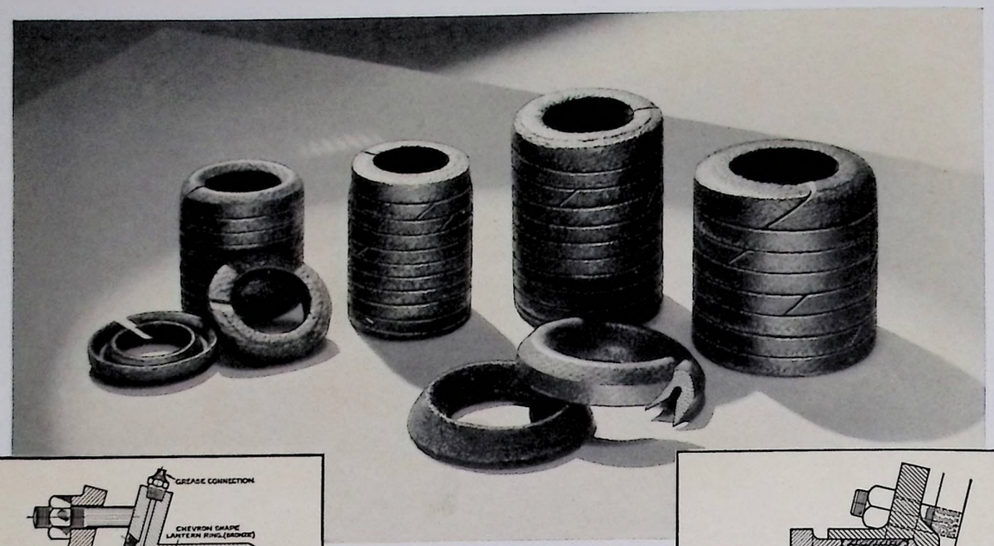
Regularly furnished on 1-pound, 2-pound or 5-pound spools. Maximum size packaged on 1-pound spools is 3/8"; maximum size on 2-pound spools, 1/2". Sizes in excess of 1/2" are furnished on 5-pound spools.

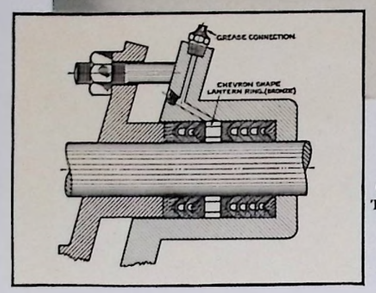
Approximate weights per hundred feet of a few standard sizes of GARLOCK 1700 are listed below:

GARLOCK 1700

Size	Weight per Hundred Feet	Size	Weight per Hundred Feet
1/16"	.25 lbs.	1/2"	7.625 lbs.
1/8"	.5625 lbs.	5/8"	12. lbs.
1/4"	2.375 lbs.	3/4"	18.875 lbs.
3/8"	4.75 lbs.		

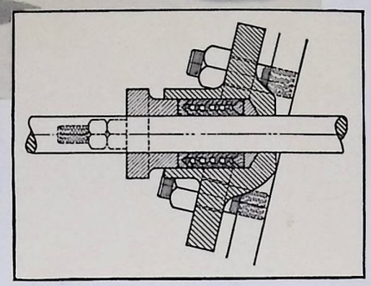
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CHEVRON THROTTLE PACKING WITH GREASE LANTERN

GARLOCK 530 CHEVRON



TYPICAL APPLICATION OF CHEVRON THROTTLE PACKING

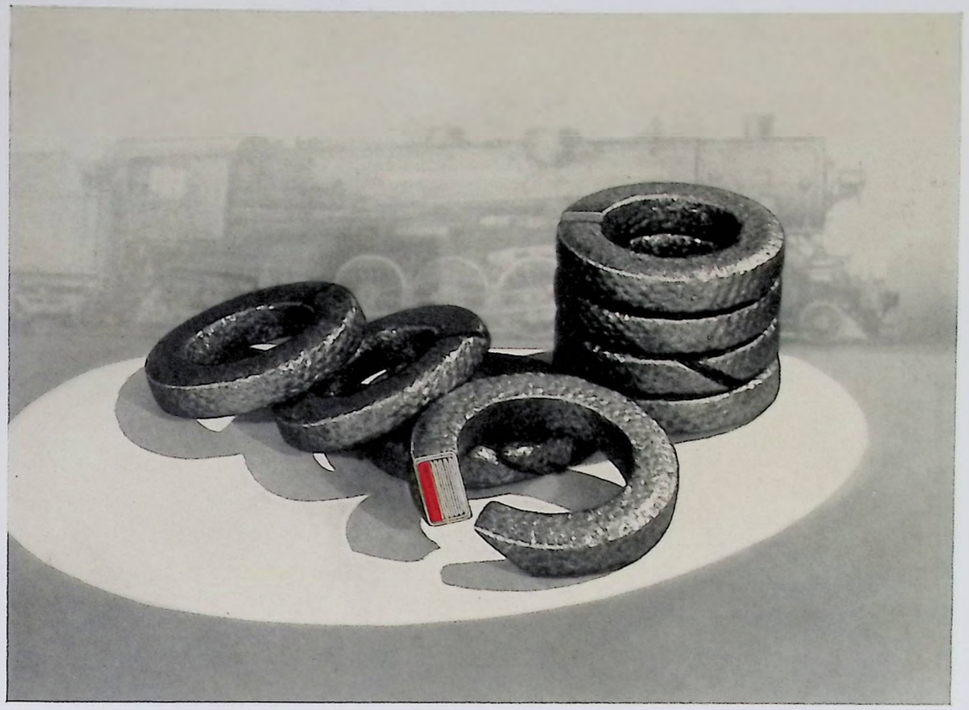
Construction—Garlock 530 Chevron Throttle Packing is manufactured only by The Garlock Packing Company. Special asbestos cloth and Garlock rubber friction are molded under heavy pressure into the unique and exclusive Chevron shape. The hinge-like design of Chevron results in a packing entirely automatic in action. The greater the pressure on Chevron rings the tighter they pack.

Form—Chevron Throttle Packing is furnished only in sets to exact throttle stem and stuffing box sizes. Each set contains a top and bottom adapter ring and a sufficient number of intermediate Chevron rings to produce a set of the specified depth. The top and bottom rings are formed to adapt themselves either to flat or beveled gland and stuffing box.

For best service on locomotive throttles, Chevron sets should not exceed 3″ in depth. When applying Chevron, therefore, it is recommended that deeper boxes be bushed to 3″ in depth. This will result in the best Chevron installation and will effect a reduction in the amount of throttle packing required per locomotive.

Chevron Throttle Packing is frequently installed with a grease lantern ring and a connection for a grease gun. An installation of this type, which permits the introduction of lubricant into the stuffing box, results in longer packing life and easier operating throttles. It represents the most desirable locomotive throttle packing arrangement.

Application—Because Chevron packing is automatic in action, heavy gland pressure is not required. After applying bottom ring, the Chevron rings should be applied one at a time and rings seated individually by using a flat tool or stick. The recess or V in the Chevron rings must be toward the pressure. Complete the application by adding the top ring. Draw up enough on gland to make sure the entire set is firmly seated in the stuffing box but do not apply excessive gland pressure on the packing at any time. To do so interferes with its automatic action.



GARLOCK 2000

LOCOMOTIVE THROTTLE PACKING

GARLOCK 2000

Construction—Garlock 2000 is a set packing composed of rings of Garlock 200 High Pressure Asbestos Packing.

Service—Recommended for application to throttle stuffing boxes on locomotives. It is particularly suitable for throttle boxes located above the water line.

Form—Garlock 2000 is furnished in a complete range of sizes for locomotive throttle installations.

In ordering, the diameter of the rod, the inside diameter of the stuffing box and depth of stuffing box should be given.

LOCOMOTIVE THROTTLE DUO PACKING

GARLOCK 3200

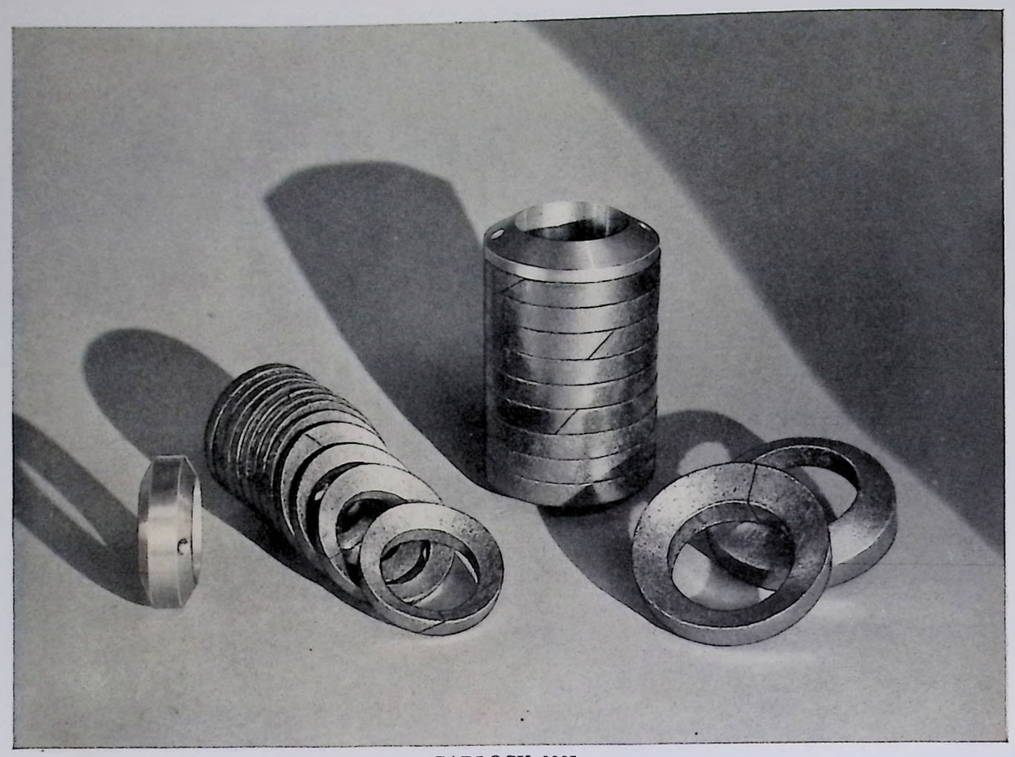
Construction—Garlock 3200 is a combination packing consisting of Garlock 200 High Pressure Asbestos Packing with a soft metal insertion, duck and rubber ring at the bottom of the set.

Service—Recommended for service in throttle stuffing boxes on locomotives. It is particularly suitable for throttle boxes located below the water line.

Form—Garlock 3200 is furnished in a complete range of sizes for locomotive throttle installations.

In ordering, the diameter of the rod, the inside diameter of the stuffing box and depth of stuffing box should be given.

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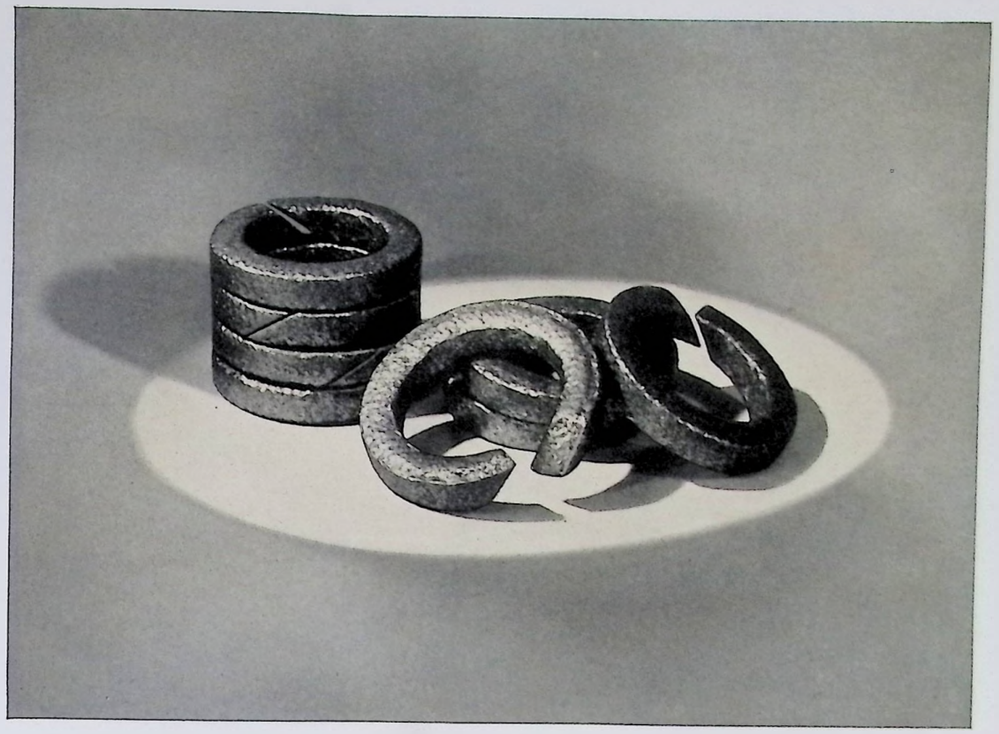
GARLOCK 9001

Construction—GARLOCK 9001 is a special packing put up in sets, each complete set consisting of a series of concave-convex shredded metal rings, molded from strands of metal floss suitable for service against temperatures up to 1500° F., and a throat or adapter ring made either of bronze or of the regular 9001 material, as specified.

Service—GARLOCK 9001 was developed and is intended specifically for service on American Multiple Throttles.

Form—Complete sets of GARLOCK 9001 are supplied in the several sizes required to pack properly the various American Multiple Throttles designated, respectively, Types A, B, C, D, E and F. Types A, B, C and D are furnished with bronze adapter or throat rings, and Types E and F are furnished with adapter rings made of 9001 material unless otherwise specified. Orders should show Superheater Company blueprint or card number.

For replacement service, additional 9001 concave-convex rings are obtainable without adapter rings.



GARLOCK 2200

LOCOMOTIVE AIR PUMP PACKING

GARLOCK 2200

Construction—GARLOCK 2200 is a set packing composed of rings of GARLOCK High Pressure Asbestos Packing.

Service—Recommended for application to either the air or steam end of Westinghouse and New York Air Pumps.

Form—GARLOCK 2200 is furnished in all standard sizes for Westinghouse and New York Air Pumps. In ordering GARLOCK 2200 for Westinghouse equipment, the size of the pump should be specified; for New York equipment, the number of the pump should be specified.

A package of GARLOCK 2200 contains sufficient packing for one stuffing box only. When ordering for a complete pump installation, it, therefore, is necessary to indicate that a complete set is desired.

GARLOCK 2245

Construction—GARLOCK 2245 is a set packing composed of rings of braided asbestos construction. The inner braiding of these rings consists of wire inserted yarn, and the outer braid is woven from pure asbestos yarn. The lubricating and graphite treatment which this material receives results in a flexible packing capable of withstanding high temperatures.

Service—Recommended for service on either the air or steam end of Westinghouse and New York Air Pumps.

Form—GARLOCK 2245 is furnished in all standard sizes for Westinghouse and New York Air Pumps. In ordering GARLOCK 2245 for Westinghouse equipment, the size of the pump should be specified; for New York equipment, the number of the pump should be specified.

A package of GARLOCK 2245 contains sufficient packing for one stuffing box only. When ordering for a complete pump installation, it, therefore, is necessary to indicate that a complete set is desired.

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GARLOCK 377

LOCOMOTIVE AIR PUMP PACKING

GARLOCK 377

Construction—GARLOCK 377 sets for air pumps are composed of rings of the asbestos and soft metal packing described on page 25.

Service—Recommended for service on air and steam rods of Westinghouse and New York Air Pumps.

Form—GARLOCK 377 Air Pump Packing is furnished in standard size sets for all Westinghouse and New York Pumps. When ordering for Westinghouse equipment the size of the pump should be specified; for New York equipment, specify the number of the pump. Each package contains sufficient packing for one stuffing box only.

GARLOCK 928
(Copper Jacketed)

Construction—GARLOCK 928 Locomotive Air Pump Packing is made from the special, heat resistant, plastic material described on page 92, over which has been braided a strong, single cover or jacket of copper wire.

Service—This material is recommended for application to steam and air rods of Westinghouse and New York air pumps and is particularly durable in that severe service.

Form—GARLOCK 928 Air Pump Packing is furnished in complete sets for all locomotive air pumps. When ordering for Westinghouse equipment the size of the pump should be specified; for New York pumps specify the number of the pump. Each package or set contains sufficient packing for one stuffing box only.



LOCOMOTIVE POWER REVERSE GEAR ROD AND TRUNK PACKINGS

GARLOCK packings are packaged in sets to fit all types of locomotive power reverse gears. Set packings particularly recommended for use on the several different gears are listed below.

Alco Gears—GARLOCK 449S, which is a combination of GARLOCK 333 and 550 duck and rubber rings, has been used on Alco gears for many years.

For types E, G and H Alco gears, GARLOCK 430 Chevron packing is highly recommmended. For Type K Alco, GARLOCK 530 modified Chevron is recommended.

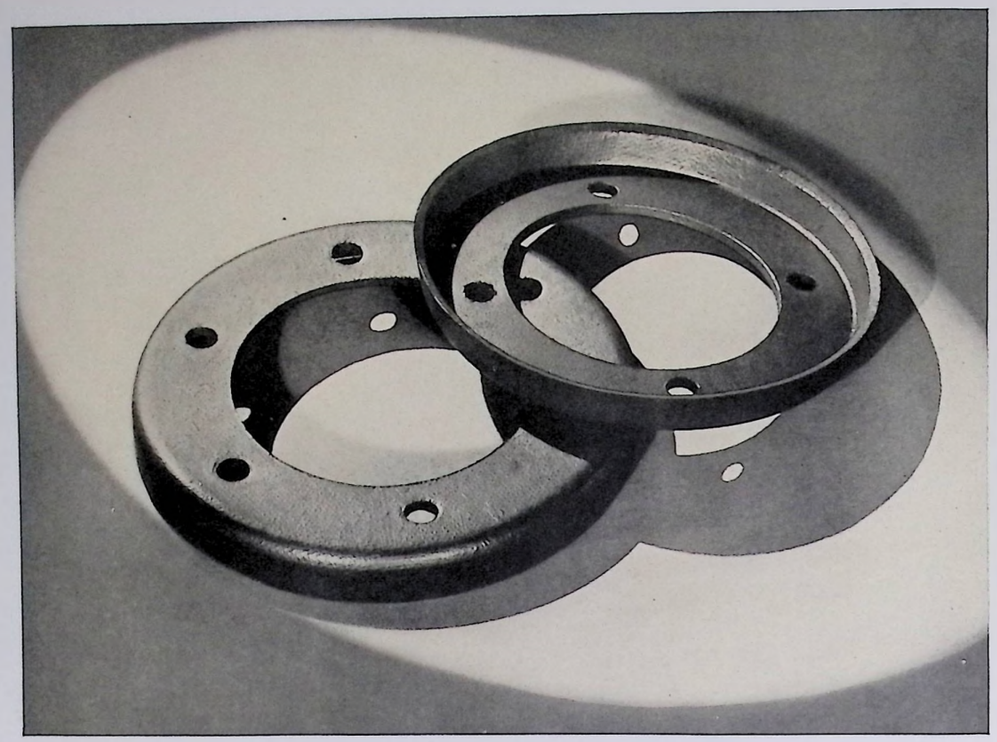
Barco Gears—For Barco gears GARLOCK 530 modified Chevron is recommended.

Franklin and Precision Gears—For Precision gears and for Franklin Types E and G gears, GARLOCK 530 modified Chevron is recommended and extensively used.

Ragonnet Gears—GARLOCK 1225 has been used extensively on Ragonnet gears for many years. This packing is a combination of GARLOCK 222 and GARLOCK 235 asbestos ring packings. An improved packing for both Type A and B Ragonnet gears is GARLOCK 430 Chevron. This material is recommended for these gears.

When ordering packing for any reverse gear specify the kind and type of gear, style of packing and number of sets required.

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GARLOCK 813-A

POWER REVERSE GEAR CUPS

Construction—GARLOCK 813-A Cups are manufactured from GARLOCK asbestos cloth, frictioned with a high-grade heat and oil resistant compound. They are molded to the desired size and shape.

Service—Recommended for service on all types of reverse gear pistons.

Form—GARLOCK Power Reverse Gear Cups are furnished in a complete range of sizes to fit all reverse gears, including Ragonnet, Precision, Alco and Lewis.

When ordering, the size of cylinder and make of the reverse gear should be specified.

POWER REVERSE GEAR CYLINDER PACKING

GARLOCK 812

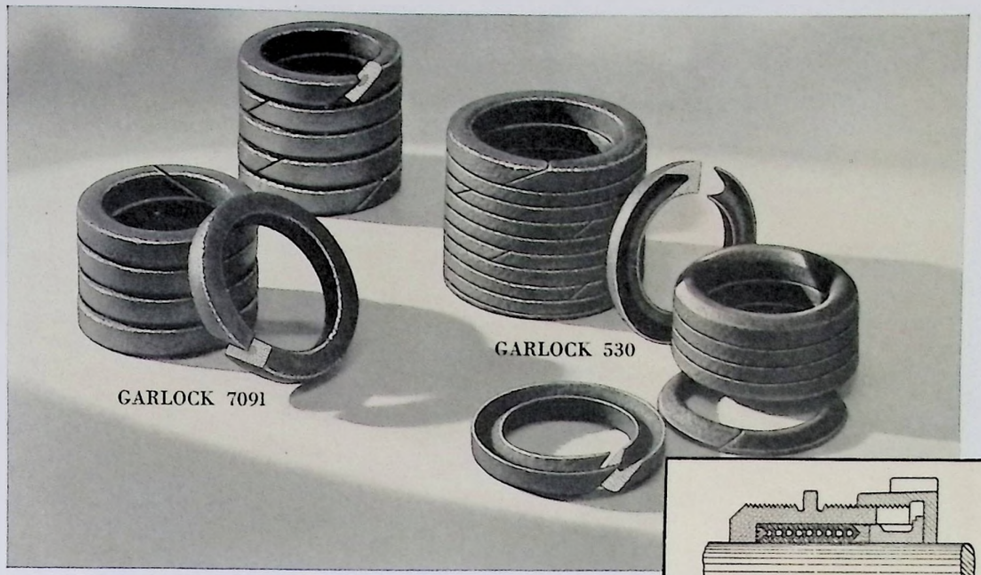
Construction—GARLOCK 812 is a duck and rubber packing constructed with diagonal plies and molded rectangular in cross section. It is lubricated and graphited.

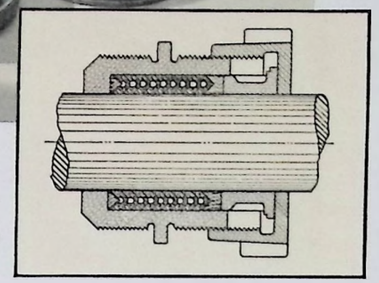
Form—GARLOCK 812 is furnished in ring form, molded to proper sizes to fit reverse gear cylinders. It is obtainable either in single rings or in sets to the proper depth.

GARLOCK 1200

Construction—GARLOCK 1200 is a braided asbestos packing molded rectangular in cross section and lubricated with a heat-resisting compound and graphite.

Form—GARLOCK 1200 is furnished in ring form, molded to proper sizes to fit reverse gear cylinders. It can be obtained either in single rings, or in sets to the proper depth.





GARLOCK 530
APPLIED TO FEED
WATER PUMP

LOCOMOTIVE FEED WATER HEATER PUMP ROD PACKINGS

ELESCO PUMPS
GARLOCK 530

GARLOCK 530 Chevron packing is recommended for the steam and water rods of Elesco Pumps. This material is fully described on page 81.

For Elesco pumps, GARLOCK 530 is packaged in sets of exact size to fit the rod and stuffing box. When ordering specify whether for standard or undersize rod. If for undersize rod advise whether diameter is 1/16", 1/8" or 1/4" undersize.

GARLOCK 377

GARLOCK 377 is also used extensively on Elesco pumps. This packing, which is fully described on page 25, has a soft metal wearing surface with asbestos back and side walls. For this service GARLOCK 377 is packaged in sets to rod and stuffing box sizes.

WORTHINGTON PUMPS
GARLOCK 530

GARLOCK 530 Chevron packing, as fully described on page 81, is recommended for steam and water rods of Worthington pumps.

GARLOCK 530 is packaged in sets to fit standard and undersize rods of all Worthington pumps. When ordering specify type of pump and give rod diameter.

GARLOCK 7091

GARLOCK 7091 also is used on these pumps. This is a square duck packing with red rubber core and is lubricated and graphited. Furnished in coil or spiral, or in rings cut and formed to specified rod and stuffing box dimensions.

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ELESCO PUMPS

For follower type pistons GARLOCK 261 Cut Open Rings or GARLOCK 33 Special Rock Hard Coil or Rings are used. Rings are packaged in sets of 3 rings each to fit CF-1, CF-2 or W-6½ pumps, either for standard or oversize cylinders.

For grooved type pistons GARLOCK 260 Rock Hard Solid Rings are recommended. These rings are made of the same material as GARLOCK 261 except that they are cured rock hard. Packaged in 3-ring sets to fit CF-1, CF-2 and W-6½ pumps, standard or oversize cylinders. Before applying, rings must be machined to proper cylinder fit, then cut open and soaked in hot water.

WORTHINGTON PUMPS

For follower type pistons GARLOCK 33 Special Rock Hard is recommended. This packing is produced of special materials and by carefully controlled methods which result in a product having minimum expansion in hot water service. GARLOCK 33 Special Rock Hard is furnished approximately square in cross section in ring, coil or spiral form. Rings are supplied in any specified sizes to fit cylinders. Coils and spirals are made in all sizes from ⅛" to 1¼" and are furnished in standard 15-foot lengths.

For grooved type pistons GARLOCK 108 Rings are recommended. These are very hard, glossy, black rubber, molded to exact specified sizes for standard or oversize cylinders.



STANDARD STOKER PACKINGS

STEAM END

GARLOCK 377

GARLOCK 377 is recommended for service on the steam pistons and valve rods of Standard Stoker engines. This material, which provides a soft metal wearing surface on the rod combined with an asbestos channel back, is fully described on page 25.

For Stoker Engine service GARLOCK 377 is packaged in sets, sized exactly to fit rod and stuffing box.

OIL END

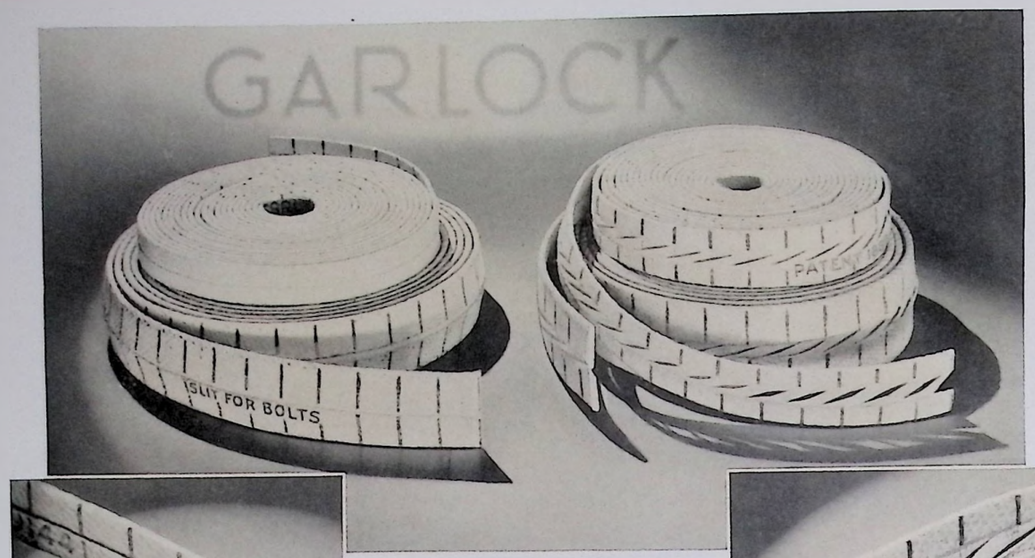
GARLOCK 343

For the piston and valve rods on the oil end of Standard Stoker engines, GARLOCK 343 is recommended. This is a laminated packing in which a specially treated GARLOCK asbestos cloth is the base. GARLOCK 343 is put up in sets to fit piston and valve rods of these engines.

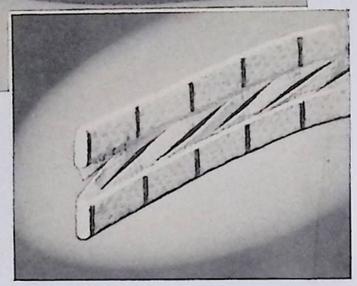
GARLOCK 7567

GARLOCK 7567 also gives splendid service on the oil end of piston and valve rods of Standard Stoker engines. This packing is made of special, heavy duck, plied with a binder having high resistance to oils. GARLOCK 7567 is supplied in sets to fit piston and valve rods of these stoker engines.

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GARLOCK 616 (Patented)



GARLOCK 617 (Patented)

LOCOMOTIVE FRONT END TAPE

GARLOCK 616

Construction—Garlock 616 Button Hole Tape is constructed of two parallel courses of Garlock wire inserted asbestos cloth, folded and joined together closely by a single ply of bonding fabric. The tape is treated with a high-grade, heat-resisting compound.

Application—When applying this tape, bolt holes are made by inserting a knife blade in the bonding fabric. One inch graduation marks printed on the tape permit holes to be cut at the bench, providing the bolt spacing is known.

Service—Garlock 616 is recommended for application to locomotive front ends and to large flanged tanks or other joints subject to high temperatures and pressures.

Form—This tape is obtainable in continuous lengths and in almost any width and thickness.

GARLOCK 617

Construction—Garlock 617 Slotted Asbestos Tape is made of two courses of Garlock wire inserted, folded asbestos cloth, joined together by a fabric-connecting member in which is cut a multiplicity of diagonal slots.

Application—The diagonal slots provided in the connector of this tape permits it to be applied readily over bolts or studs. It is not necessary to cut additional holes in the tape, regardless of the bolt spacing.

Service—Garlock 617 is recommended for use on front ends of locomotives and on flanged joints of large tanks of any kind where high temperatures and pressures are encountered.

Form—This tape is obtainable in continuous lengths and in practically any width or thickness, except that provision for the 7/16" wide connector must be made when specifying width.



GARLOCK 530 GARLOCK 1005

EXPANSION JOINT PACKINGS

GARLOCK 1005

Construction—Garlock 1005 Ring and Garlock 1015 Coil Packings for locomotive expansion joints are made from wire inserted asbestos yarn braided hard, and given an external graphite treatment with no lubrication. The same material, lubricated and graphited, is supplied as Garlock 1005-A in ring form and Garlock 1015-A in coil.

Service—This material was developed specially for use on Mallet locomotive slip joints. It is also used on old type ball joints and for any expansion joints operating against steam or oil.

Form—In ring form Garlock 1005 or Garlock 1005-A is furnished to any specified size. Coil forms of this material—Garlock 1015 and Garlock 1015-A are made in sizes from 1/8" to 1 1/4", and are regularly packaged in boxes of approximately 10 pounds net weight. It is also available in continuous lengths on reels.

GARLOCK 530

Construction—Garlock 530 Chevron Packing, which is fully described on page 81, is formed from sturdy asbestos cloth into the distinctive and exclusive Chevron shape.

Service—The ability of Garlock Chevron to adjust itself automatically to pressure changes and to vibration and lateral movement such as is encountered on locomotive expansion joints makes it a particularly effective packing for that severe service.

Form—Garlock 530 Chevron is manufactured in ring form only and is generally supplied in complete sets with top and bottom adapter rings.

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LOCOMOTIVE EXPANSION JOINT PACKING

GARLOCK 5250

Construction—GARLOCK 5250 is constructed of wire inserted asbestos yarn braided very hard in a square cross section by the lamination or braid over braid method. It receives an oil lubrication treatment and a thorough graphiting between each braid.

Service—Recommended for locomotive expansion joint service.

Form—GARLOCK 5250 is obtainable in two forms—Coil and Ring.

GARLOCK 5250 Rings are cut from GARLOCK 5250 Coil in any specified size.

GARLOCK 5250 Coil is manufactured in all packing sizes from ¼" to 1¼", advancing by sixteenths.

GARLOCK 5270

Construction—GARLOCK 5270 is manufactured from wire inserted asbestos yarn and is braided very hard in a square cross section by the same method as used in producing flax packing. It receives a lubrication and a very heavy graphite treatment which is impregnated into every strand of the material.

Service—Recommended for locomotive expansion joint service.

Form—GARLOCK 5270 is obtainable in two forms—Coil and Ring.

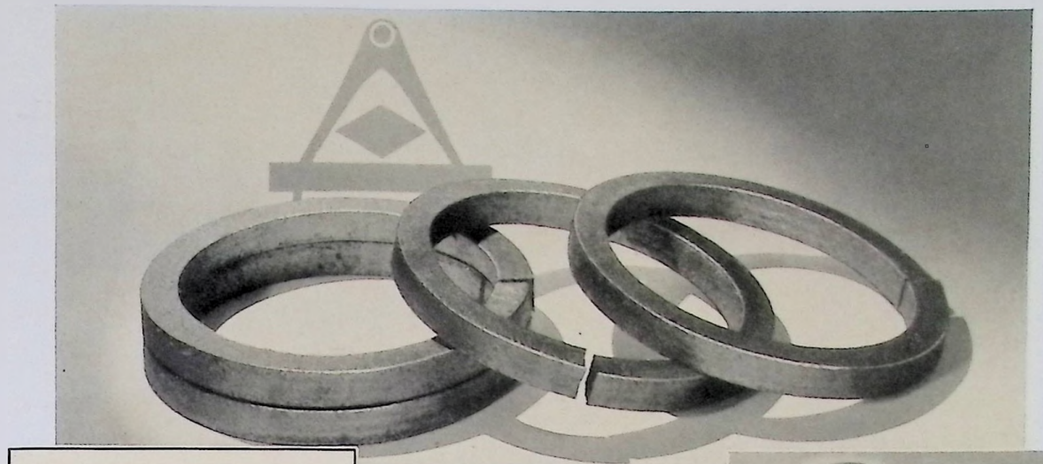
GARLOCK 5270 Rings are cut from GARLOCK 5270 Coil in any specified size.

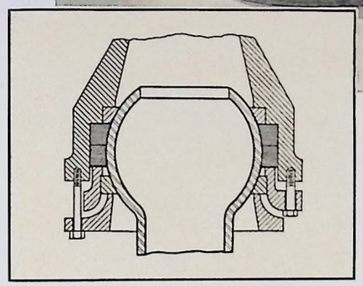
GARLOCK 5270 Coil is manufactured in all packing sizes from ⅛" to 1¼", advancing by sixteenths.

LOCOMOTIVE GAUGE COCK DISCS

GARLOCK 7751

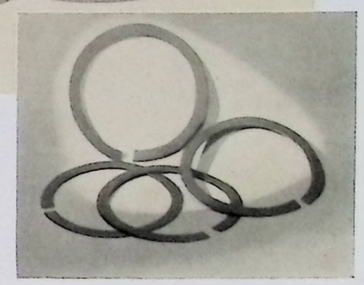
GARLOCK 7751 Gauge Cock Discs are recommended for use on standard locomotive gauge cocks. They are manufactured from a special compound developed specifically to withstand the severe operating conditions existing in locomotive service for which ordinary gauge cock discs are not suitable.





BOOSTER ENGINE BALL JOINT PACKING

GARLOCK 1010 Applied to Booster Engine Ball Joint



FILLER RINGS

GARLOCK 1010 RING
GARLOCK 1020 COIL

Construction—GARLOCK Locomotive Ball Joint Packing is made of a special asbestos cloth, folded and formed square in cross section. It receives an external treatment of lubrication and graphite.

Service—This material was developed for use on the ball joints of locomotive booster engines and on new type ball joints of Mallet locomotives. It has also been used successfully as piston rings in steam hammers and for general steam service.

Form—In ring form this material is designated GARLOCK 1010. It is also obtainable in coil—GARLOCK 1020.

For booster engine and Mallet joint service, ring form only is recommended. For that service GARLOCK 1010 is furnished in ring sets molded to the exact size and contour of the ball.

GARLOCK 1020 Coil is manufactured in all sizes above ½" and in any desired length.

GARLOCK 7114 FILLER RINGS FOR BOOSTER ENGINE BALL JOINTS

GARLOCK 7114 Filler Rings for booster engine ball joints are supplied in standard ⅛" thickness to fit 3" or 3½" joints.

These rings are intended for use in conjunction with GARLOCK 1010 Ball Joint Packing for the purpose of taking up slack in the joint packing due either to wear of the metal parts or compression of the packing in service.

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GASKETS FOR BOOSTER ENGINES

GARLOCK Gaskets are standard on many railroads for every gasket application on locomotive booster engines. GARLOCK 950 Gaskets are recommended for some locations and GARLOCK 7022 for others. Gaskets are furnished plain or graphited.

When ordering booster engine gaskets it is only necesary to furnish the builder's part or drawing number and description. We have complete drawings and will furnish gaskets of the proper style, thickness and fit.

POWER REVERSE GEAR GASKETS

GARLOCK 952 Gaskets, as described on page 102, are recommended for use on locomotive power reverse gears. These gaskets are standard on many railroads. If desired, graphited gaskets will be supplied.

Orders for power reverse gear gaskets should specify the builder's part and drawing number, and state type of gear. This information will permit us to furnish gaskets to exact size and fit.

LOCOMOTIVE FEED WATER HEATER GASKETS

GARLOCK Gaskets are furnished cut to exact size and shape for use on Elesco and Worthington feed water heaters. For most applications on these pumps GARLOCK 7022 gaskets are recommended, plain or graphited as specified. For some locations on Worthington pumps, however, GARLOCK Special 7597 gaskets are used. When ordering gaskets for feed water pumps specify builder's drawing and part number, and type of pump.

TANK CAR GASKETS

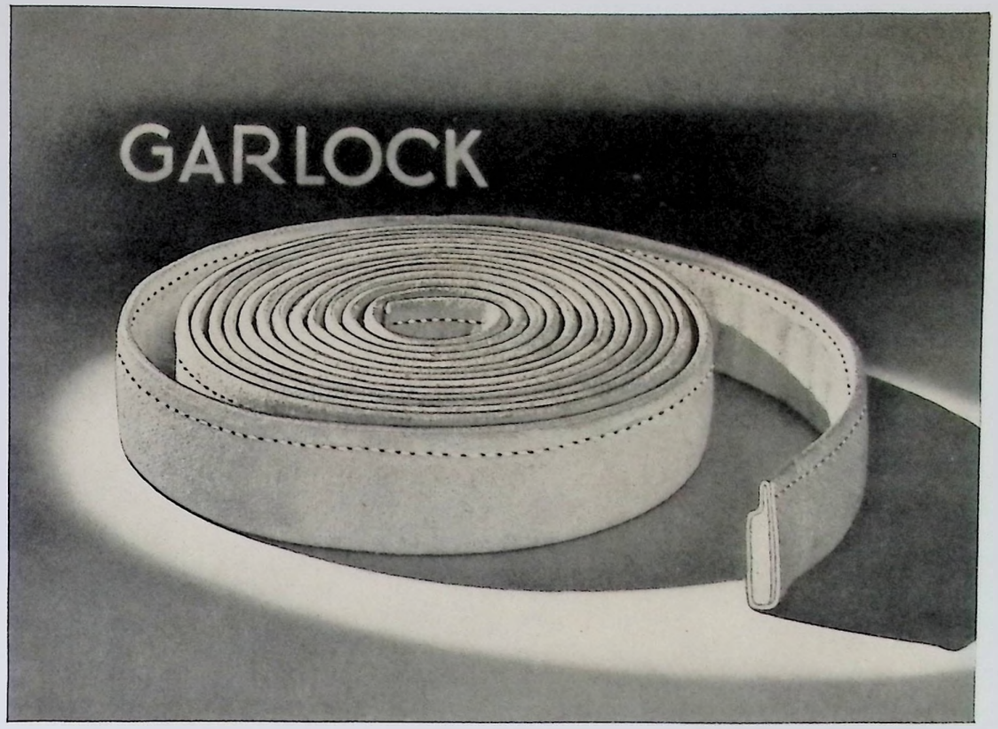
GARLOCK 7158 Gaskets are made of a special black rubber compound which has the characteristics necessary for tank car dome head and outlet cap service. These gaskets are soft enough to permit easy application but sufficiently hard to resist cutting. They retain their high strength even after being soaked in gasoline and do not swell excessively.

GARLOCK 7158 Gaskets are furnished in any specified size and thickness to fit dome heads or outlet caps.

TANK HOSE GASKETS

GARLOCK 122 Gaskets, as described on page 103, are recommended for tank hose connections between tender and locomotive.

These gaskets are furnished in any specified size and thickness.



GARLOCK 7771 TAPE

GARLOCK INSULATION TAPE

GARLOCK 7771

Construction—GARLOCK 7771 Insulation Tape consists of a center core or ribbon of asbestos fibre encased in a cover of GARLOCK asbestos cloth. In forming the cover a flap is provided along one edge through which the tape is stitched.

Service—This tape is particularly recommended for use on locomotive steam pipes. In wrapping the tape around the pipe the flap overlaps the next adjoining course of tape 3/8", making a smooth and complete insulating cover.

Form—GARLOCK 7771 is made in thicknesses from 3/16" up and in any suitable width. When specifying width the 3/8" flap is not included. Thus a tape having a nominal width of 2" will be 2 3/8" wide including the flap. GARLOCK 7771 Tape is obtainable in continuous lengths.

GARLOCK 7066

Construction—GARLOCK 7066 Insulation Tape is made with a center ribbon of asbestos fibre encased in a core of GARLOCK asbestos cloth, stitched down the center. This tape is not made with the overlapping flap.

Service—GARLOCK 7066 is intended for application to steam pipes on locomotives or in power plants.

Form—This tape is obtainable in any desired width and in thicknesses from 3/16" up. Furnished in continuous lengths if desired.

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LOW PRESSURE PACKING





GARLOCK 777 SPIRAL (*Steam*)
GARLOCK 778 SPIRAL (*Ammonia*)

GARLOCK 333
RINGS (*Steam*)

GARLOCK 339
RINGS (*Odd Shape*)

GARLOCK 334
RINGS (*Ammonia*)



Construction—GARLOCK Extra Spiral and Ring Packing is constructed of plies of closely woven duck, frictioned with a high-grade rubber compound, and finished with thick rubber covers. Although regularly lubricated and graphited, it is also furnished unlubricated and ungraphited when so specified.

Service—GARLOCK 777 Spiral, GARLOCK 333 Ring and GARLOCK 339 Ring are recommended for hot or cold water service; for steam service on piston and valve rods of engines, and for steam piston rods of pumps at pressures of 100 pounds per square inch, or less. GARLOCK 778 Spiral and GARLOCK 334 Ring are specially treated for ammonia service.

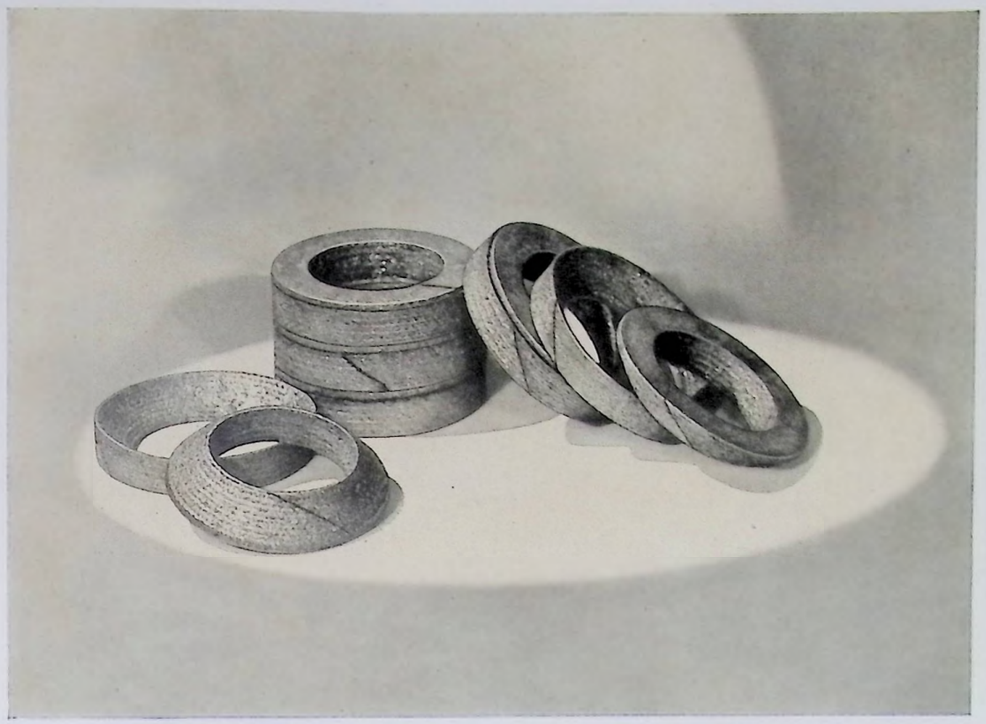
Form—This packing is regularly furnished either in spiral form—GARLOCK 777 and GARLOCK 778—or in ring form—GARLOCK 333 and GARLOCK 334. Odd shape rings, for application on rods with flat sides, are styled GARLOCK 339.

Ring forms of this packing are furnished to fit any specified rod and stuffing box size. Spiral forms of this packing are furnished in standard 12½-foot lengths and in standard thicknesses from ¼″ to 1″, advancing by eighths.

Footage and approximate weights per box of both dry and lubricated material are shown below:

GARLOCK 777 SPIRAL—GARLOCK 778 SPIRAL

Lubricated and Graphited			Unlubricated and Ungraphited		
Size	Feet per Box	Weight per Box	Size	Feet per Box	Weight per Box
¼″	12½ ft.	¾ lbs.	¼″	12½ ft.	1⅛ lbs.
⅜″	12½ ft.	1¼ lbs.	⅜″	12½ ft.	1⅝ lbs.
½″	12½ ft.	2 lbs.	½″	12½ ft.	1¾ lbs.
⅝″	12½ ft.	3⅛ lbs.	⅝″	12½ ft.	2¾ lbs.
¾″	12½ ft.	4⅝ lbs.	¾″	12½ ft.	3⅞ lbs.
⅞″	12½ ft.	6½ lbs.	⅞″	12½ ft.	5⅝ lbs.
1″	12½ ft.	8½ lbs.	1″	12½ ft.	6⅝ lbs.



GARLOCK 550 RINGS (*Steam*)
GARLOCK 556 RINGS (*Ammonia*)

Construction—GARLOCK Diagonal Cut Extra Ring Packing is constructed of plies of closely woven duck, frictioned with a specially compounded rubber; it is finished with thick rubber covers. These rings are furnished with a diagonal cut as illustrated above.

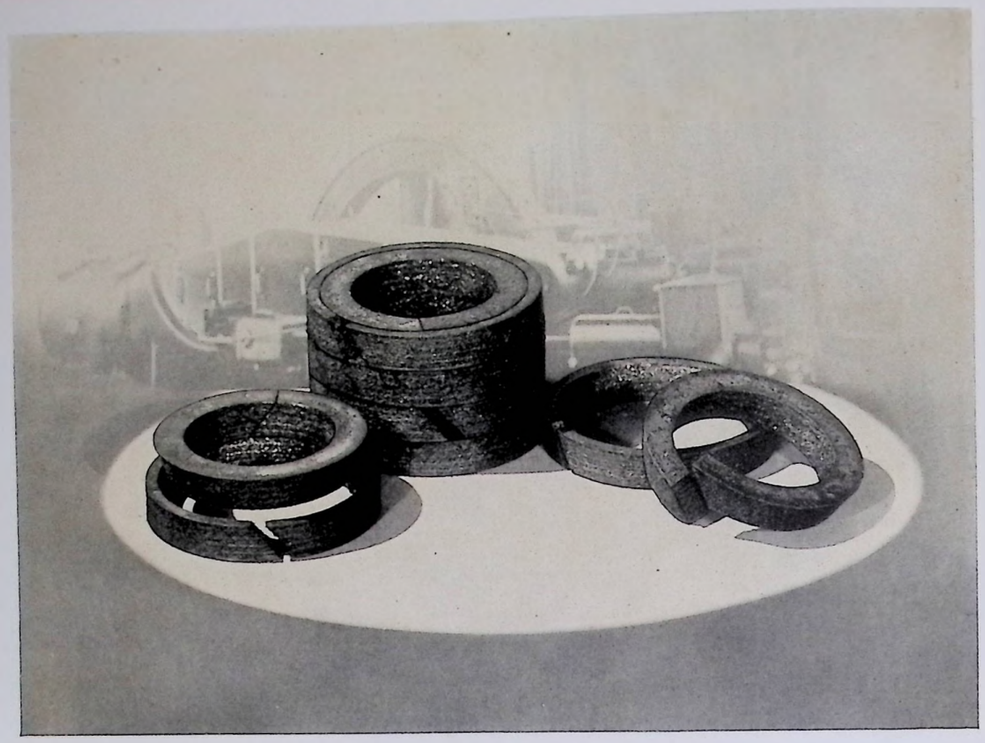
Service—GARLOCK 550 Rings are recommended for service on the piston and valve rods of engines and steam piston rods of pumps at pressures of 100 pounds per square inch or less. GARLOCK 556 Rings are specially treated for ammonia service.

Rings of this type are designed for service in combination with plain rings, particularly on equipment having worn or scored rods.

Form—GARLOCK 550 Rings and GARLOCK 556 Rings are furnished cut to rod and stuffing box dimensions in practically any size having a packing space and thickness of ⅜″ or more. They are furnished approximately square in cross section unless otherwise specified; standard thicknesses are from ⅜″ to 1″, advancing by eighths.

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SECTIONAL CUT EXTRA RING PACKING



GARLOCK 336 RINGS (*Steam*)
GARLOCK 337 RINGS (*Ammonia*)

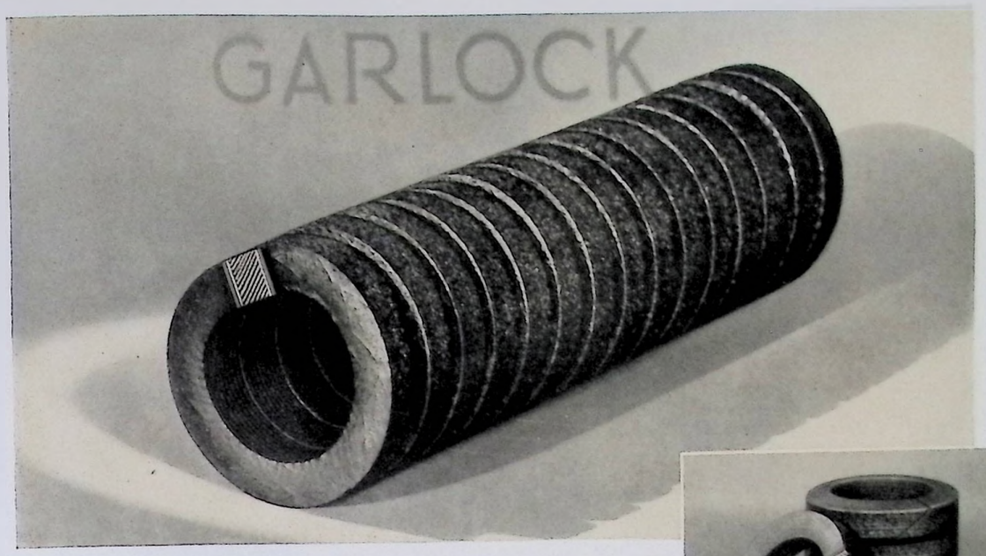
Construction—GARLOCK Extra Sectional Ring Packing is constructed of plies of closely woven duck, frictioned with a specially compounded rubber, and finished with thick rubber covers. These rings are furnished with a sectional cut as illustrated above.

Service—GARLOCK 336 Rings are recommended for steam service at pressures of 100 pounds per square inch or less. GARLOCK 337 Rings are specially treated for ammonia service.

Rings of this type are designed for service in combination with plain rings, particularly on equipment having worn or scored rods.

Form—GARLOCK 336 Rings and GARLOCK 337 Rings are furnished cut to rod and stuffing box dimensions in practically any size having a packing space of 3/8" or more. They are furnished approximately square in cross section unless otherwise specified; standard thicknesses are from 1/4" to 1", advancing by eighths.

"Z" SPIRAL PACKING



GARLOCK 711 SPIRAL



GARLOCK
712 RINGS

Construction—GARLOCK "Z" Spiral Packing is constructed of diagonal plies of closely woven duck, frictioned with a specially compounded rubber.

Service—The diagonal ply construction of GARLOCK "Z" Spiral Packing results in a material of an unusually expansive nature. It is recommended for service against medium-pressure steam, hot water and ammonia, particularly on equipment having rods or plungers out of line or subject to a lateral motion.

Form—This material is supplied in two forms, GARLOCK 711 Spiral and GARLOCK 712 Ring. GARLOCK 712 Rings are cut from GARLOCK 711 Spiral and are furnished to fit any rod and stuffing box dimensions.

GARLOCK 711 Spiral is furnished in standard 12½-foot lengths and in all packing sizes from 1/4" to 1½", advancing by sixteenths.

Listed below are footage and approximate weights on a few standard sizes:

GARLOCK 711 SPIRAL

Size	Feet per Box	Weight per Box	Size	Feet per Box	Weight per Box
1/4"	12½ ft.	5/8 lbs.	3/4"	12½ ft.	4⅜ lbs.
3/8"	12½ ft.	1¼ lbs.	7/8"	12½ ft.	6⅝ lbs.
1/2"	12½ ft.	2⅛ lbs.	1"	12½ ft.	8 lbs.
5/8"	12½ ft.	3⅜ lbs.			

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METAL INSERTION EXTRA RING PACKING

GARLOCK 313 RING (*Steam*)
GARLOCK 314 RING (*Ammonia*)
GARLOCK 316 RING—SECTIONAL CUT (*Steam*)
GARLOCK 317 RING—SECTIONAL CUT (*Ammonia*)

Construction—GARLOCK Metal Insertion Extra Ring Packing is constructed of plies of duck and rubber with a soft metal insertion, and finished with thick rubber covers.

Service—GARLOCK 313 and GARLOCK 316 Rings are recommended for service against low pressure steam, hot or cold water.

GARLOCK 314 and GARLOCK 317 Rings are recommended for service against ammonia.

Form—GARLOCK Metal Insertion Extra Ring Packing is supplied in ring form only, to any specified rod and stuffing box sizes. Standard thicknesses are approximately 3/8" and 1/2".

As indicated above, either plain or sectional cut rings, with regular lubrication for steam service, and with special treatment for ammonia service, are manufactured.

METAL WEDGE RING PACKING

GARLOCK 216 INNER WEDGE
GARLOCK 217 OUTER WEDGE

Construction—GARLOCK Metal Wedge Ring Packing is manufactured from high-grade duck and rubber slab stock with a triangular, soft metal wedge insert.

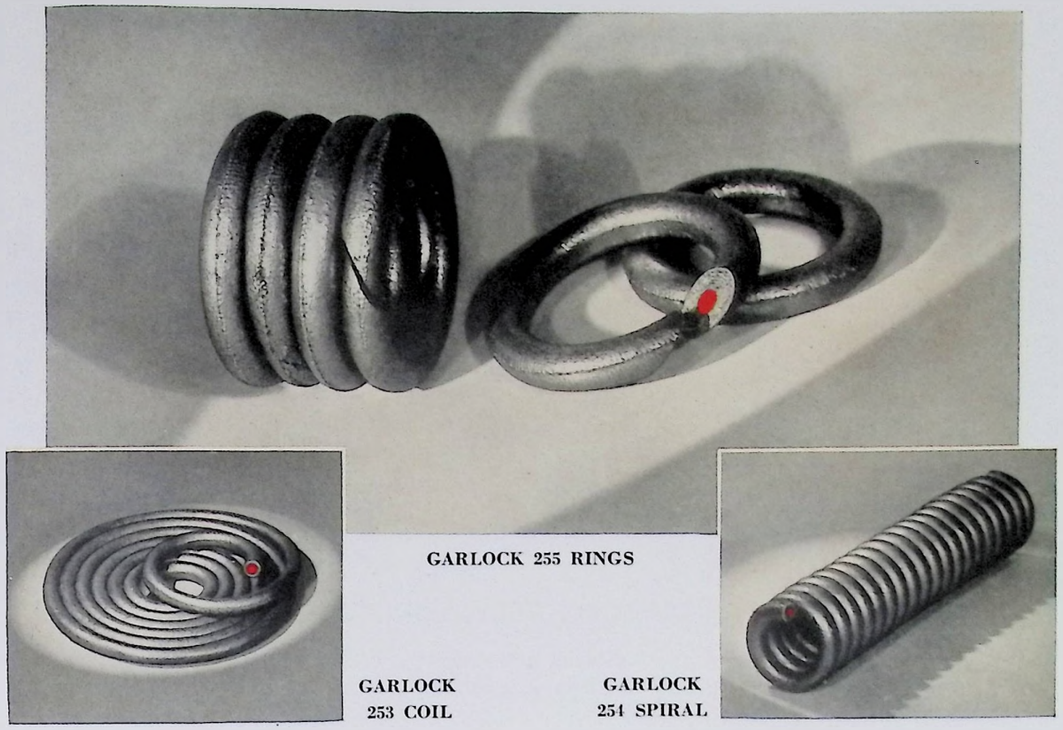
Service—Recommended for hydraulic service, particularly in combination with other hydraulic packings.

Form—Furnished in practically any diameters required, and in thicknesses approximating 1/2", 5/8", 3/4", 7/8", and 1". Minimum packing space, or width of packing, is 3/8".

GARLOCK Metal Wedge Packing is manufactured in two types, designated as follows:

GARLOCK 216 Inner Wedge has the metal wedge inserted on the inner wearing surface of the ring. This type is designed for service on outside packed plungers.

GARLOCK 217 Outer Wedge has the metal wedge on the outer wearing surface of the ring. This type is designed for service on inside packed plungers.



GARLOCK 255 RINGS

GARLOCK 253 COIL

GARLOCK 254 SPIRAL

Construction—GARLOCK Ideal Packing consists of a round core of resilient red rubber wrapped with plies of frictioned duck. It is regularly supplied lubricated and graphited.

Service—Recommended for service on high-speed engine pistons and valve stems. It is also an excellent material for use on oil or hot water pumps.

Form—GARLOCK Ideal Packing is obtainable in the three forms illustrated above—GARLOCK 253 Coil, GARLOCK 254 Spiral and GARLOCK 255 Ring.

GARLOCK 255 Rings are furnished cut and formed in any specified size to fit rod and stuffing box dimensions.

GARLOCK 253 Coil and GARLOCK 254 Spiral are furnished in standard 12 1/2-foot lengths and are manufactured in all packing sizes from 3/16" to 1 1/2", advancing by sixteenths.

The table below indicates the number of feet per box and approximate weight per box of a few standard sizes:

GARLOCK 253 Coil			GARLOCK 254 Spiral		
Size	Feet per Box	Weight per Box	Size	Feet per Box	Weight per Box
1/4"	75 ft.	3 3/8 lbs.	1/4"	12 1/2 ft.	3/16 lbs.
3/8"	50 ft.	4 1/4 lbs.	3/8"	12 1/2 ft.	1 1/16 lbs.
1/2"	50 ft.	8 lbs.	1/2"	12 1/2 ft.	2 lbs.
5/8"	37 1/2 ft.	8 5/8 lbs.	5/8"	12 1/2 ft.	2 7/8 lbs.
3/4"	25 ft.	8 3/4 lbs.	3/4"	12 1/2 ft.	4 3/8 lbs.
7/8"	12 1/2 ft.	6 lbs.	7/8"	12 1/2 ft.	6 lbs.
1"	12 1/2 ft.	8 1/16 lbs.	1"	12 1/2 ft.	8 1/16 lbs.

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RUBBER INSERTION EXTRA RING PACKING

GARLOCK 285 RING
GARLOCK 286 SECTIONAL RING

Construction—Rubber Insertion Extra Ring Packing consists of plies of duck and rubber with one or more central cushions of resilient rubber. Regularly furnished lubricated and graphited.

Service—Recommended for use as an ammonia rod packing.

Form—GARLOCK Rubber Insertion Extra Ring Packing is produced in standard thicknesses of approximately 3/8", 1/2", and 5/8". It is supplied in the two types indicated above—GARLOCK 285 Rings and GARLOCK 286 Sectional Rings.

GARLOCK 286 Sectional Rings are usually combined alternately in sets with GARLOCK 285.

RUBBER CUSHION ELEVATOR PACKING

GARLOCK 56 COIL
GARLOCK 54 RING

Construction—GARLOCK 56 is manufactured of plies of special duck cemented together with a high-grade friction and combined with a rubber back.

Service—Particularly designed for service on hydraulic conditions of all kinds.

Form—Rubber Cushion Elevator Packing is approximately square in cross section; standard sizes 3/8" to 2", advancing by thirty-seconds. It is obtainable in two forms: GARLOCK 56 Coil and GARLOCK 54 Ring.

GARLOCK 56 Coil is furnished in standard lengths of 12½ feet.

GARLOCK 54 Rings, which are cut from GARLOCK 56 Coil, are furnished in any specified size.

Listed below are approximate weights of GARLOCK 56 in some stock sizes:

GARLOCK 56 COIL

Size	Coils per Box	Weight per Box	Size	Coils per Box	Weight per Box
3/8"	8	8 lbs.	3/4"	2	10 lbs.
1/2"	5	11 lbs.	7/8"	1	6¾ lbs.
5/8"	3	10⅝ lbs.	1"	1	8¾ lbs.



GARLOCK 366 COIL

GARLOCK 368 RINGS

GARLOCK 367 SPIRAL

Construction—GARLOCK "O" Center Hydraulic Packing is constructed of a high-grade woven duck, frictioned with a tenacious rubber compound and formed with a hollow center. It is regularly treated with a high-grade lubricant and a surface graphiting.

Service—Recommended for use on steam hammer pistons, elevator plungers, ammonia compressors and plungers of outside packed pumps, in hot or cold water service.

Form—GARLOCK "O" Center Hydraulic Packing is obtainable in the three forms illustrated above—GARLOCK 366 Coil, GARLOCK 367 Spiral and GARLOCK 368 Ring.

GARLOCK 368 Rings are furnished cut and formed in any specified size to fit rod and stuffing box dimensions.

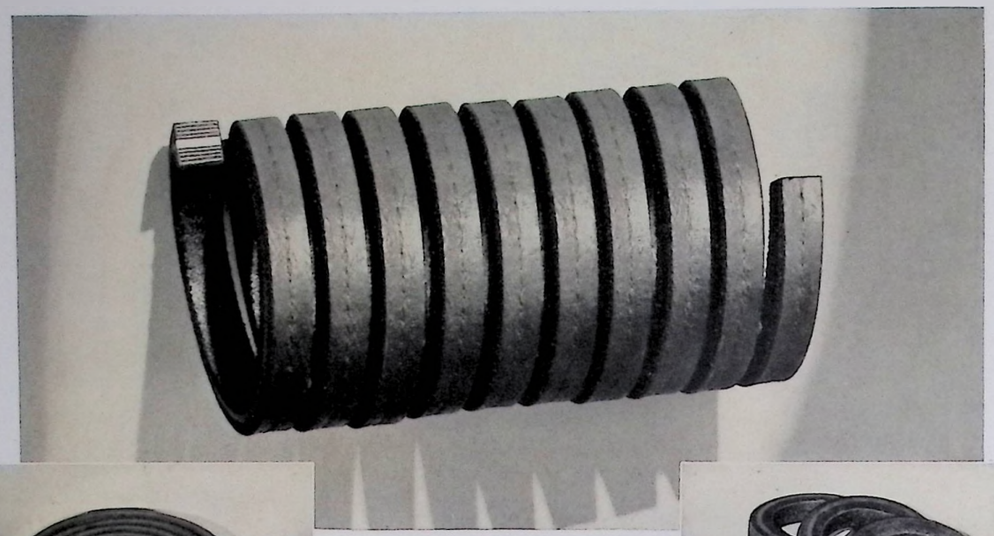
GARLOCK 366 Coil and GARLOCK 367 Spiral are furnished in standard 12½-foot lengths and are manufactured in all packing sizes from 1/4" to 1½", advancing by sixteenths.

Footage and approximate weight per box of a few standard sizes are indicated below:

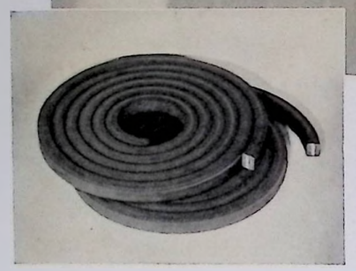
GARLOCK 366 Coil			GARLOCK 367 Spiral		
Size	Feet per Box	Weight per Box	Size	Feet per Box	Weight per Box
1/4"	75 ft.	3¾ lbs.	1/4"	12½ ft.	5/8 lbs.
3/8"	50 ft.	4¾ lbs.	3/8"	12½ ft.	1¼ lbs.
1/2"	50 ft.	7½ lbs.	1/2"	12½ ft.	1 7/8 lbs.
5/8"	37½ ft.	9 3/8 lbs.	5/8"	12½ ft.	3⅛ lbs.
3/4"	25 ft.	8¼ lbs.	3/4"	12½ ft.	4⅛ lbs.
7/8"	12½ ft.	6⅝ lbs.	7/8"	12½ ft.	6⅝ lbs.
1"	12½ ft.	8½ lbs.	1"	12½ ft.	8½ lbs.

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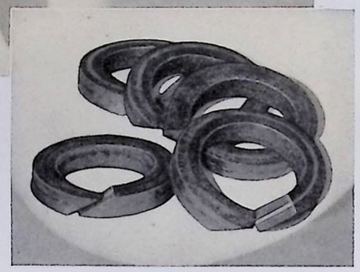
CUSHION CENTER HYDRAULIC PACKING



GARLOCK 274 SPIRAL



GARLOCK
273 COIL



GARLOCK
275 RING

Construction—GARLOCK Cushion Center Hydraulic Packing consists of a central soft rubber cushion placed between plies of duck and rubber laid parallel with the rod. Regularly supplied lubricated and graphited.

Service—Recommended for service on elevator plungers and on vertical hydraulic plungers having a lateral motion.

Form—GARLOCK Cushion Center Hydraulic Packing is furnished approximately square in cross section and is obtainable in three forms—GARLOCK 273 Coil, GARLOCK 274 Spiral and GARLOCK 275 Ring.

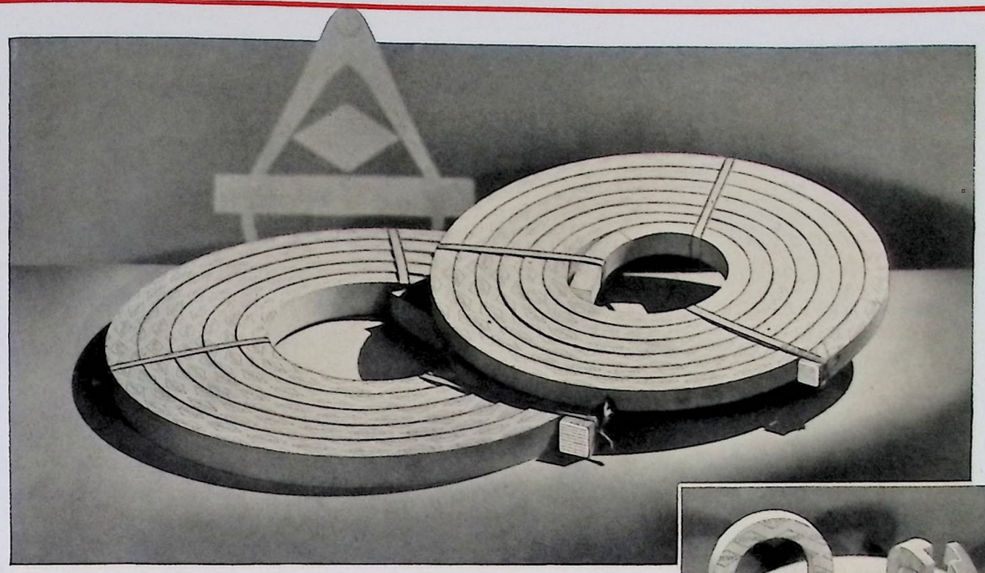
GARLOCK 275 Rings are furnished cut to any specified size to fit rod and stuffing box dimensions.

GARLOCK 273 Coil and GARLOCK 274 Spiral are furnished in standard 12½-foot lengths and are manufactured in sizes from ¼" to 1", advancing by thirty-seconds.

Approximate footage and approximate weight per box of a few standard sizes are shown below:

GARLOCK 273 Coil		
Size	Feet per Box	Weight per Box
¼"	50 ft.	1¾ lbs.
⅜"	50 ft.	6¾ lbs.
½"	50 ft.	11 lbs.
⅝"	37½ ft.	11¾ lbs.
¾"	25 ft.	11½ lbs.
⅞"	25 ft.	15⅜ lbs.
1"	12½ ft.	10⁹⁄₁₆ lbs.

GARLOCK 274 Spiral		
Size	Feet per Box	Weight per Box
¼"	12½ ft.	7/16 lbs.
⅜"	12½ ft.	1⁹⁄₁₆ lbs.
½"	12½ ft.	2¾ lbs.
⅝"	12½ ft.	3⁵⁄₁₆ lbs.
¾"	12½ ft.	5¾ lbs.
⅞"	12½ ft.	7¹¹⁄₁₆ lbs.
1"	12½ ft.	10⁹⁄₁₆ lbs.



GARLOCK 262 COIL



GARLOCK
261 RINGS

Construction—GARLOCK Special Hydraulic Packing is manufactured from a very fine cotton fabric, laid up with a high-grade white friction.

Service—Recommended for service on inside packed plungers of pumps handling either hot or cold water. It is also satisfactory for service against hot or cold oils.

Form—GARLOCK Special Hydraulic Packing is regularly furnished in two forms—GARLOCK 262 Coil and GARLOCK 261 Ring. Solid rings are styled GARLOCK 260. Both ring and coil forms are obtainable with either regular or rock hard cure.

GARLOCK 261 Rings are furnished cut and formed in any specified size. They are regularly furnished with a step joint as illustrated above. Can also be furnished with a butt or beveled joint.

GARLOCK 260 Rings are furnished solid, and in any outside diameter up to 21". Can be furnished in thicknesses of ¼", ⅜", ½" and ⅝" only.

GARLOCK 262 Coil is furnished in standard 15-foot lengths, and is manufactured in sizes from ⅛" to 1¼", advancing by thirty-seconds.

Number of coils and approximate weight per box of a few standard sizes are indicated below:

GARLOCK 262 COIL					
Size	Coils per Box	Weight per Box	Size	Coils per Box	Weight per Box
¼"	4	2¾ lbs.	¾"	2	12⅜ lbs.
⅜"	3	4⁹⁄₁₆ lbs.	⅞"	1	8¾ lbs.
½"	2	5¾ lbs.	1"	1	11 lbs.
⅝"	2	8⅜ lbs.			

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REGULAR HYDRAULIC COIL PACKING

GARLOCK 33 COIL

Construction—Garlock 33 Coil is a good grade hydraulic packing of duck and rubber construction.

Service—Garlock 33 Coil is intended particularly for use on pistons of inside packed pumps handling hot or cold water.

Form—Garlock 33 Coil is regularly furnished approximately square in cross section, in sizes from 1/8" to 1 1/4"; standard length of coil is 15 feet.

It is obtainable with either regular or rock hard cure.

The following table indicates the number of coils and approximate weight per box of a few standard sizes:

GARLOCK 33 COIL

Size	Coils per Box	Weight per Box	Size	Coils per Box	Weight per Box
1/4"	4	2 lbs.	3/4"	2	9 1/2 lbs.
3/8"	3	3 3/8 lbs.	7/8"	1	6 3/8 lbs.
1/2"	2	4 1/4 lbs.	1 "	1	8 3/4 lbs.
5/8"	2	6 3/4 lbs.			

BLACK FRICTION HYDRAULIC COIL PACKING

GARLOCK 38 COIL

Construction—Garlock 38 Coil is a high-grade hydraulic packing, made up of plies of good quality duck and a black rubber friction.

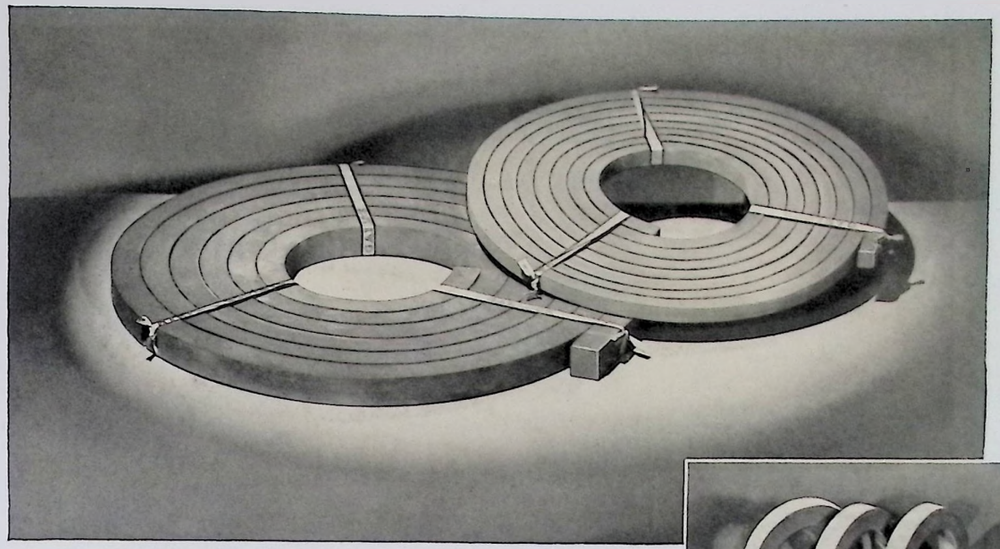
Service—Garlock 38 Coil is recommended for service against cold water on the pistons of inside packed pumps.

Form—Garlock 38 Coil is regularly furnished approximately square in cross section, in sizes 1/8" to 1 1/4"; standard length of coil is 15 feet. It is obtainable with regular cure only.

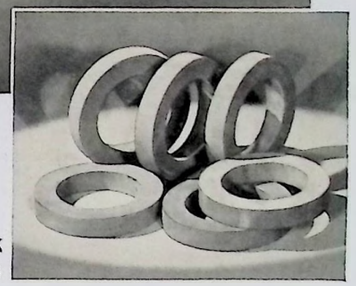
In the following table, the number of coils and approximate weight per box of a few standard sizes are shown:

GARLOCK 38 COIL

Size	Coils per Box	Weight per Box	Size	Coils per Box	Weight per Box
1/4"	4	2 lbs.	3/4"	2	10 3/4 lbs.
3/8"	3	4 1/8 lbs.	7/8"	1	6 3/4 lbs.
1/2"	2	4 1/2 lbs.	1 "	1	10 1/8 lbs.
5/8"	2	7 1/2 lbs.			



GARLOCK 94 COIL



GARLOCK 95 RINGS

Construction—Garlock Square Gray Rubber Packing is a medium soft gray rubber stock containing a high percentage of rubber. Outstanding characteristics are its toughness and lasting resiliency, either in service or in stock.

Service—Garlock 94 Coil will give excellent service as a packing wherever a medium soft, square rubber strip is required. It is widely used in the marine trade as a porthole rubber. In ring form, it is particularly recommended as a wiper ring in sets of ammonia packing.

Form—Garlock 94 Coil Packing is regularly supplied square in sizes 1/4" to 1 1/4". Can also be furnished in round, rectangular or irregular cross sections. Standard length of coils is 12 1/2 feet; can be furnished in continuous lengths if desired.

Garlock 95 Ring can be supplied in practically any size desired. Is regularly furnished solid, but will be cut open when so specified.

The table below indicates the number of 12 1/2-foot coils and the approximate weight per box of a few standard sizes:

GARLOCK 94 COIL

Size	Coils per Box	Weight per Box	Size	Coils per Box	Weight per Box
1/4"	6	4 1/8 lbs.	3/4"	2	11 1/4 lbs.
3/8"	4	6 lbs.	7/8"	1	8 1/8 lbs.
1/2"	3	7 7/8 lbs.	1 "	1	10 5/8 lbs.
5/8"	2	8 1/4 lbs.			

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SPECIAL CYLINDER PACKING

GARLOCK 45 COIL
GARLOCK 65 RING

Construction—GARLOCK 45 is a tubular material manufactured from a high-grade, soft gray rubber compound. With each box of GARLOCK 45, connecting leads and friction tape for use in forming rings or gaskets are furnished.

Service—GARLOCK 45 is designed for use in combination with other of our hydraulic packings, or for gasket service.

Form—GARLOCK 45 Coil is regularly furnished in 12½-foot lengths; it can also be supplied in continuous lengths on reels. Standard sizes ¼″ to 1″, advancing by sixteenths. GARLOCK 65 Rings, which are formed from GARLOCK 45 Coil, are furnished in any specified size.

Listed below is approximate weight information applying to standard boxes of GARLOCK 45 in the stock sizes:

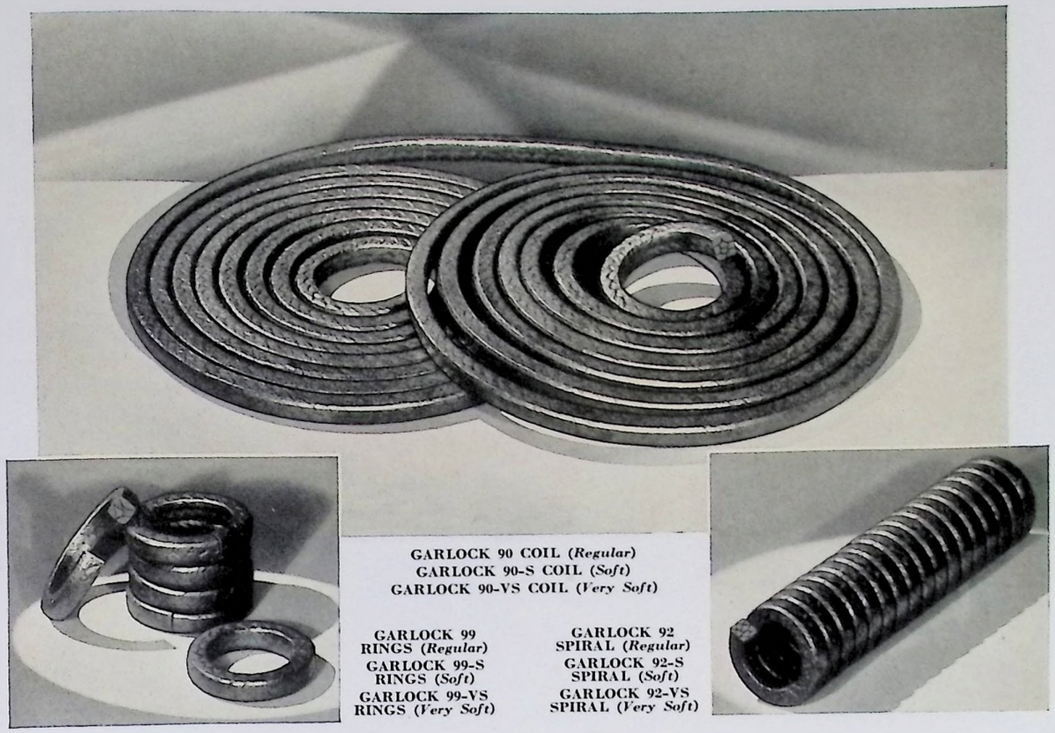
Size	Coils per Box	Connections per Box	Weight per Box
3/8″	4	30	4¾ lbs.
½″	3	20	6⅜ lbs.
5/8″	2	15	6¾ lbs.
¾″	2	12	9⅜ lbs.

GARLOCK GAUGE GLASS WASHERS

GARLOCK Gauge Glass Washers are manufactured from a high-grade rubber stock specially compounded to obtain long life and lasting resiliency.

The design of these washers enables easy application. They also reduce breakage of the glasses, and keep the connections from sputtering and leaking.

GARLOCK Gauge Glass Washers are furnished in standard sizes for ½″, 5/8″, ¾″ and 1″ gauge glasses.



GARLOCK 90 COIL (*Regular*)
GARLOCK 90-S COIL (*Soft*)
GARLOCK 90-VS COIL (*Very Soft*)

GARLOCK 99 RINGS (*Regular*)
GARLOCK 99-S RINGS (*Soft*)
GARLOCK 99-VS RINGS (*Very Soft*)

GARLOCK 92 SPIRAL (*Regular*)
GARLOCK 92-S SPIRAL (*Soft*)
GARLOCK 92-VS SPIRAL (*Very Soft*)

Construction—GARLOCK Waterproof Hydraulic Flax Packing is manufactured from the longest fibre, imported roving, sorted and graded by flax experts. It is free from tow, coarse or short fibres. Extreme care in braiding produces an even and uniform material. The packing is thoroughly impregnated with a special graphite waterproof lubricant.

Service—This material is recommended for use on heavy hydraulic duty such as rams, accumulators, hydraulic pumps, elevator plungers or outside packed pumps handling cold water or cold oil.

Form—GARLOCK Waterproof Hydraulic Flax Packing is regularly braided square and is produced in three densities, designated—Regular, Soft and Very Soft. It is furnished in coil, spiral or ring form.

Coil Form is furnished in sizes 1/8″ to 3″ and is boxed in the manner indicated in the table below. May also be produced in continuous length on reels.

Spiral Form is furnished in sizes 1/8″ to 3″. It is packaged one spiral length per box.

Ring Form—Rings of GARLOCK Waterproof Hydraulic Packing are furnished cut and formed in any specified size to fit rod and stuffing box dimensions.

Listed below are approximate footage and weights on some standard sizes of GARLOCK 90 Coil:

GARLOCK 90 COIL

Size	Coils per Box	Feet per Box	Weight per Box
1/4″	4	164 ft.	6 lbs.
3/8″	4	120 ft.	8⅝ lbs.
1/2″	4	88 ft.	11¾ lbs.
5/8″	1	34 ft.	7 lbs.
3/4″	1	26 ft.	8 lbs.
7/8″	1	23 ft.	9 lbs.
1″	1	19 ft.	9½ lbs.

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GOLD BRAND FLAX PACKING





GARLOCK 25 COIL (*Hard*)
GARLOCK 26 COIL (*Regular*)
GARLOCK 27 COIL (*Very Soft*)
GARLOCK 36 COIL (*Graphited*)

Construction—GARLOCK Gold Brand Flax Packing is manufactured from the longest fibre, imported roving, sorted and graded by flax experts. It is free from tow, coarse or short fibres. Extreme care in braiding produces an even and uniform material. Gold Brand Flax is the highest grade flax packing.

Service—Gold Brand Flax Packing will give satisfactory service on heavy hydraulic duty and all cold water installations.

Form—This grade of flax is regularly braided square in sizes 1/8" to 3", and is furnished either in coil or ring form. It is obtainable with four different lubrication treatments, as follows:

GARLOCK 25 Coil is treated with a hard grease lubricant which gives a relatively firm density.

GARLOCK 26 Coil is treated with our regular flax lubricant and has a medium density.

GARLOCK 27 Coil has a heavier lubrication treatment resulting in a very soft material.

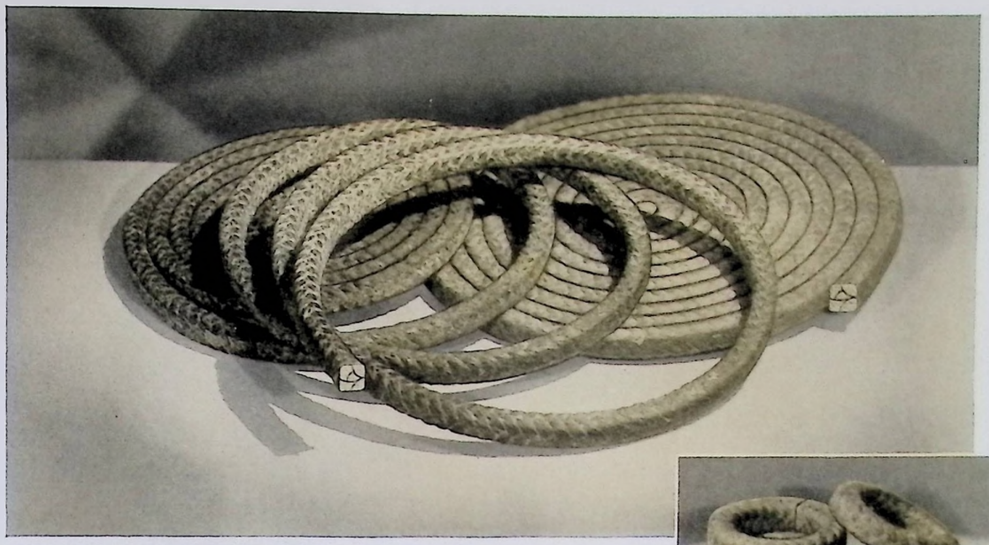
GARLOCK 36 Coil is treated with our regular flax lubricant and graphited.

Listed below are footage and approximate weights of some standard sizes:

GARLOCK 25 COIL (*Hard*)	GARLOCK 26 COIL (*Regular*)	GARLOCK 27 COIL (*Very Soft*)	
Size	Coils per Box	Feet per Box	Weight per Box
1/4"	7	280 ft.	9 9/16 lbs.
3/8"	5	150 ft.	9 15/16 lbs.
1/2"	4	80 ft.	9 3/4 lbs.
5/8"	3	51 ft.	9 5/8 lbs.
3/4"	3	42 ft.	11 3/8 lbs.
7/8"	3	36 ft.	12 7/8 lbs.
1"	1	19 ft.	9 7/16 lbs.

GARLOCK THE STANDARD PACKING OF THE WORLD

SILVER BRAND FLAX PACKING





GARLOCK 30 COIL (*Hard*)
GARLOCK 31 COIL (*Regular*)
GARLOCK 32 COIL (*Very Soft*)
GARLOCK 131 COIL (*Graphited*)

Construction—GARLOCK Silver Brand Flax Packing is manufactured from good grade, long fibre flax roving. Extreme care in braiding produces an even and uniform material.

Service—Silver Brand Flax Packing will give excellent service on hydraulic and cold water conditions.

Form—Silver Brand Flax Packing is regularly braided square in sizes 1/8" to 3", and is furnished either in coil or ring form. It is obtainable with four different lubrication treatments as follows:

GARLOCK 30 Coil is treated with a hard grease lubricant which gives a relatively firm density.

GARLOCK 31 Coil is treated with our regular flax lubricant and has a medium density.

GARLOCK 32 Coil has a heavier lubricant treatment resulting in a very soft material.

GARLOCK 131 Coil is treated with our regular flax lubricant and graphited.

Listed below are footage and approximate weights of some standard sizes:

GARLOCK 30 COIL (*Hard*)	GARLOCK 31 COIL (*Regular*)	GARLOCK 32 COIL (*Very Soft*)	
Size	Coils per Box	Feet per Box	Weight per Box
1/4"	7	280 ft.	9 9/16 lbs.
3/8"	5	150 ft.	9 15/16 lbs.
1/2"	4	80 ft.	9 3/4 lbs.
5/8"	3	51 ft.	9 5/8 lbs.
3/4"	3	42 ft.	11 3/8 lbs.
7/8"	3	36 ft.	12 7/8 lbs.
1"	1	19 ft.	9 7/16 lbs.

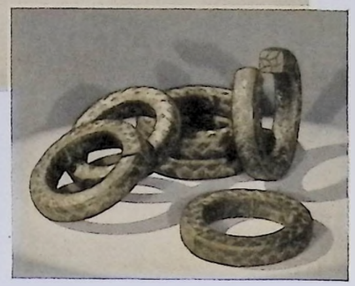
THE STANDARD PACKING OF THE WORLD GARLOCK

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HIGH PRESSURE FLAX PACKING



GARLOCK 50



Construction—GARLOCK 50 is manufactured from the longest fibre, imported roving, sorted and graded by flax experts. It is free from tow, coarse or short fibres. Extreme care in braiding produces an even and uniform material. GARLOCK 50 is processed with a special waterproof lubricant.

Service—GARLOCK 50 is recommended for heavy hydraulic duty and all cold water installations. Because it will not discolor liquids or solutions, it is also particularly suitable for dairy and paper mill service.

Form—GARLOCK 50 is regularly braided square in sizes 1/8" to 3", and is furnished either in coil or ring form.

Listed below are footage and approximate weights of some standard sizes:

Size	Coils per Box	Feet per Box	Weight per Box
1/4"	4	164 ft.	6 lbs.
3/8"	4	120 ft.	8 5/8 lbs.
1/2"	4	88 ft.	11 3/4 lbs.
5/8"	1	34 ft.	7 lbs.
3/4"	1	26 ft.	7 1/2 lbs.
7/8"	1	23 ft.	9 lbs.
1"	1	19 ft.	9 1/2 lbs.

OCEAN BRAND BLENDED FLAX PACKING



GARLOCK 42 COIL (*Very Soft*)
GARLOCK 43 COIL (*Regular*)
GARLOCK 53 COIL (*Graphited*)



Construction—GARLOCK Ocean Brand Blended Flax Packing is manufactured from a medium grade of flax roving. The same care in braiding is used as in the manufacture of our highest grade flax packings, insuring even and uniform material.

Service—GARLOCK Ocean Brand Blended Flax Packing is designed for service in ordinary hydraulic conditions.

Form—Ocean Brand Blended Flax Packing is regularly braided square in sizes 1/8" to 3", and is furnished either in coil or ring form. It is obtainable with three different lubrication treatments as follows:

GARLOCK 42 Coil has a heavy treatment of our regular flax lubricant, resulting in a very soft material.

GARLOCK 43 Coil is treated with our regular flax lubricant and has a medium density.

GARLOCK 53 Coil is treated with our regular flax lubricant and graphited.

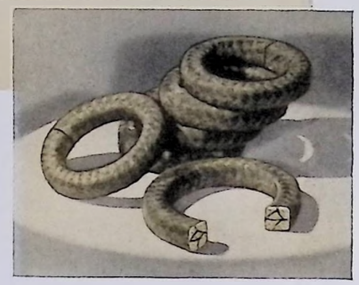
Listed below are footage and approximate weights of some standard sizes:

	GARLOCK 42 COIL (*Very Soft*)	GARLOCK 43 COIL (*Regular*)	
Size	Coils per Box	Feet per Box	Weight per Box
1/4"	7	287 ft.	11 lbs.
3/8"	5	150 ft.	11 lbs.
1/2"	4	80 ft.	11 lbs.
5/8"	3	51 ft.	10 lbs.
3/4"	3	42 ft.	12 1/4 lbs.
7/8"	3	36 ft.	12 1/2 lbs.
1"	1	19 ft.	10 lbs.

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LAKE BRAND JUTE PACKING





GARLOCK 34 COIL (*Hard*) GARLOCK 535 COIL (*Very Soft*)
GARLOCK 35 COIL (*Regular*) GARLOCK 52 COIL (*Graphited*)

Construction—GARLOCK Lake Brand Jute Packing is manufactured from all fine white India jute, sorted and graded carefully as to length of fibre. The same careful braiding process is used as in the manufacture of our flax packings, insuring an even and uniform material.

Service—GARLOCK Lake Brand Jute Packing will give satisfactory service on all hydraulic and cold water conditions where a jute packing generally is used.

Form—Lake Brand Jute Packing is regularly braided square in sizes 1/8" to 3", and is furnished either in coil or ring form. It is obtainable with four different lubrication treatments as follows:

GARLOCK 34 Coil is treated with a wax lubricant which gives a relatively firm density.

GARLOCK 35 Coil is treated with our regular flax lubricant and has a medium density.

GARLOCK 535 Coil has a heavier lubrication treatment resulting in a very soft material.

GARLOCK 52 Coil is treated with our regular flax lubricant and graphited.

Listed below are footage and approximate weights of some standard sizes:

GARLOCK 34 COIL (*Hard*)	GARLOCK 35 COIL (*Regular*)	GARLOCK 535 COIL (*Very Soft*)	
Size	Coils per Box	Feet per Box	Weight per Box
1/4"	7	287 ft.	10 lbs.
3/8"	5	150 ft.	10 lbs.
1/2"	4	80 ft.	10 lbs.
5/8"	4	68 ft.	10 lbs.
3/4"	3	42 ft.	11 lbs.
7/8"	3	36 ft.	14 lbs.
1"	1	27 ft.	14 lbs.

RUBBER BACK FLAX PACKING

GARLOCK 83 WATERPROOF HYDRAULIC COIL
GARLOCK 183 WATERPROOF HYDRAULIC RING
GARLOCK 93 UNTREATED COIL
GARLOCK 193 UNTREATED RING

Construction—GARLOCK Rubber Back Packing is a braided flax packing, manufactured from the longest fibre, imported flax roving, to which is vulcanized a good grade rubber cushion.

Service—Particularly recommended for service on cold water rods that are out of line.

Form—GARLOCK Rubber Back Flax Packing is approximately square in cross section; standard sizes 1/4" to 3". It is furnished in coil or ring form, lubricated or unlubricated, under the following style designations:

GARLOCK 83 Coil is treated with a waterproof hydraulic compound. Standard length of coil is 12½ feet.

GARLOCK 183 Ring is treated with a waterproof hydraulic compound. Can be furnished in any specified size.

GARLOCK 93 Coil is untreated. Standard length of coil is 12½ feet.

GARLOCK 193 Ring is untreated. Can be furnished in any specified size.

Listed below are number of coils and approximate weights on some standard sizes of GARLOCK 83 Coil and GARLOCK 93 Coil:

GARLOCK 83 Coil			GARLOCK 93 Coil		
Size	Coils per Box	Weight per Box	Size	Coils per Box	Weight per Box
1/4"	10	4 3/8 lbs.	1/4"	12	3 15/16 lbs.
3/8"	6	5 15/16 lbs.	3/8"	6	4 13/16 lbs.
1/2"	5	8 5/8 lbs.	1/2"	5	6 3/4 lbs.
5/8"	4	10 5/16 lbs.	5/8"	4	8 5/16 lbs.
3/4"	3	11 3/4 lbs.	3/4"	3	9 lbs.
7/8"	1	6 1/8 lbs.	7/8"	1	4 1/8 lbs.
1"	1	6 15/16 lbs.	1"	1	5 5/16 lbs.

BRAIDED COTTON COIL PACKING

GARLOCK 66

Construction—GARLOCK 66 is manufactured of high-grade cotton, carefully braided to produce an even and uniform material. It is thoroughly impregnated with lubrication and graphite.

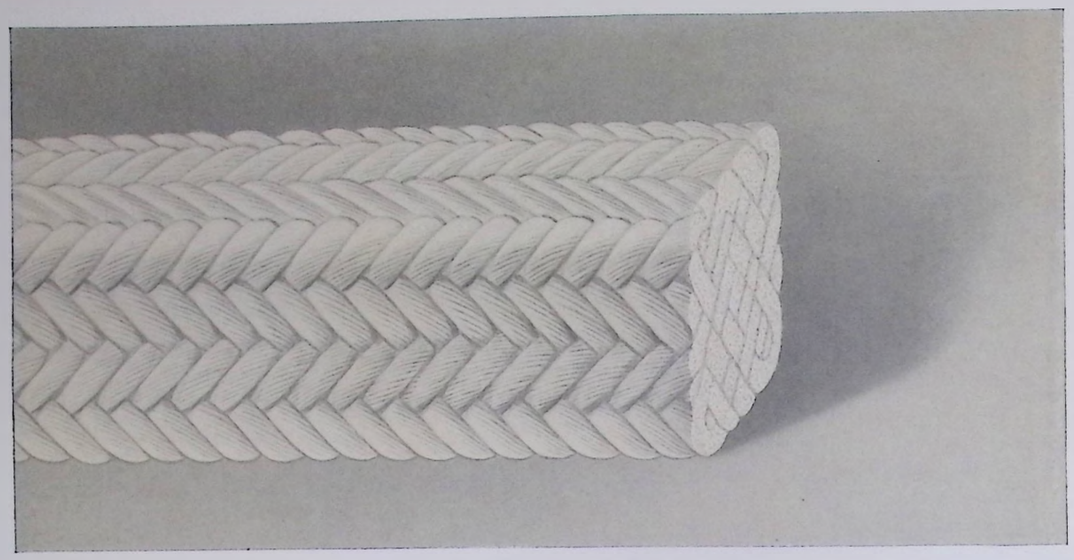
Service—Particularly adapted for service on centrifugal and reciprocating pumps handling cold oil or water.

Form—This braided cotton packing is approximately square in cross section. It is furnished in sizes 1/8" to 3" in coil form, or in cut rings.

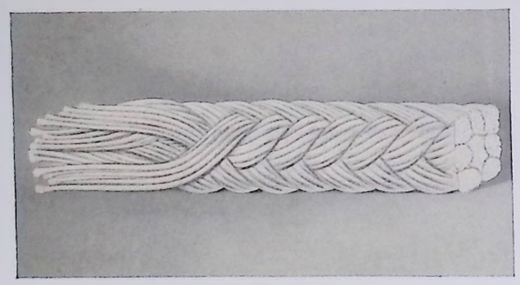
Footage and approximate weight per box of a few standard sizes are shown below:

GARLOCK 66 Coil			
Size	Coils per Box	Feet per Box	Weight per Box
1/4"	7	287 ft.	10 lbs.
3/8"	5	150 ft.	10 lbs.
1/2"	4	80 ft.	10 lbs.
5/8"	3	51 ft.	10½ lbs.
3/4"	3	42 ft.	12 lbs.
7/8"	3	36 ft.	14 lbs.
1"	1	27 ft.	13 lbs.

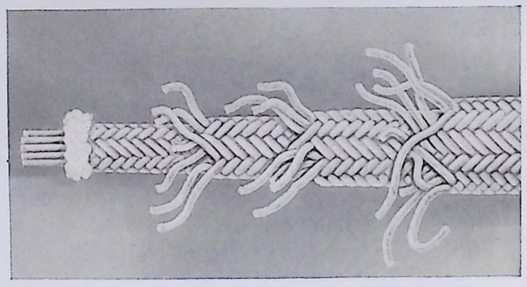
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LATTICE BRAID (Patented)



ORDINARY SQUARE OR FLAX BRAID



ROUND OR BRAID-OVER-BRAID

GARLOCK Lattice-Braid patented packings are distinctly new and different materials, manufactured on special machines designed solely to produce this exclusive line of packings.

In Lattice-Braid every strand in the structure passes diagonally through the packing at an angle of approximately 45 degrees. Thus, the material is braided internally as well as externally with every strand contributing to the strength of the entire structure.

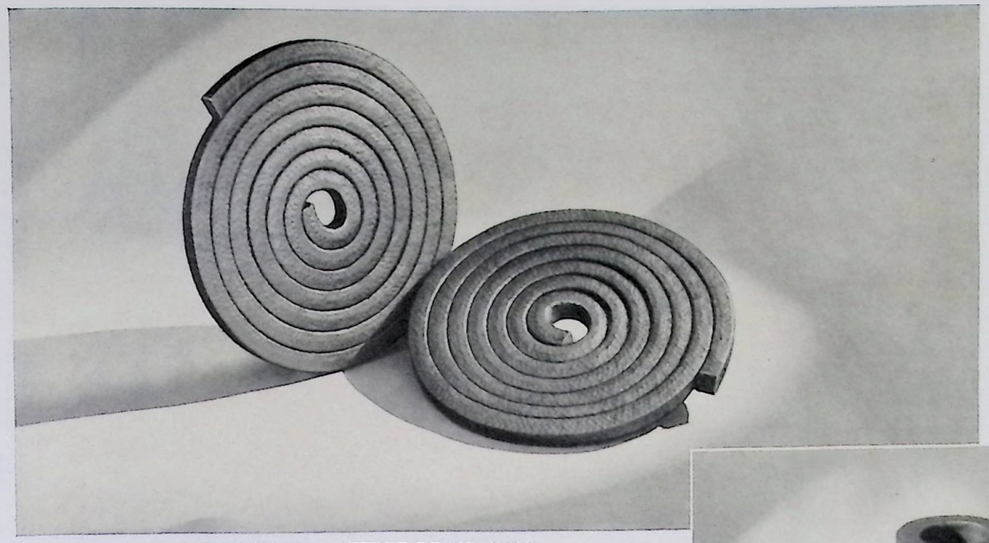
This improved construction produces a packing having these outstanding features:

Longer life because the packing does not disintegrate when the outer strands, in contact with the moving rod or shaft, wear through.

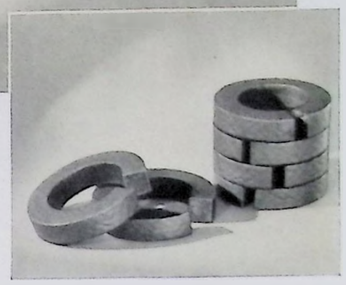
Unusual flexibility which permits formation into rings without distortion of the packing.

A structure having a predetermined degree of porosity which permits the liquid or gas being confined to penetrate partially the body of the packing, imparting to it a semi-automatic action and making it unnecessary to apply excessive gland pressure to prevent leakage.

The accompanying drawings show the structural design of GARLOCK Lattice-Braid packing and illustrate how it differs fundamentally from the conventional square and round braided packings. The line of Lattice-Braid packings, together with the service for which each of these materials is recommended, is described on pages 75 to 79 inclusive.



GARLOCK 730 LATTICE-BRAID COIL
(Patented)



GARLOCK 730
RINGS

Construction—GARLOCK 730 Lattice-Braid packing is manufactured from long fibre asbestos yarn by the patented Lattice-Braid process. It is thoroughly impregnated throughout with a special GARLOCK lubricant and graphite.

Service—GARLOCK 730 is specially recommended for service on the shafts of centrifugal and rotary pumps handling hot or cold water, caustic solutions or weak acids.

Form—GARLOCK 730 Coil is manufactured in sizes from $\frac{3}{8}$" to 1" inclusive, advancing by sixteenths. It is available in standard coil lengths or in continuous lengths on reels.

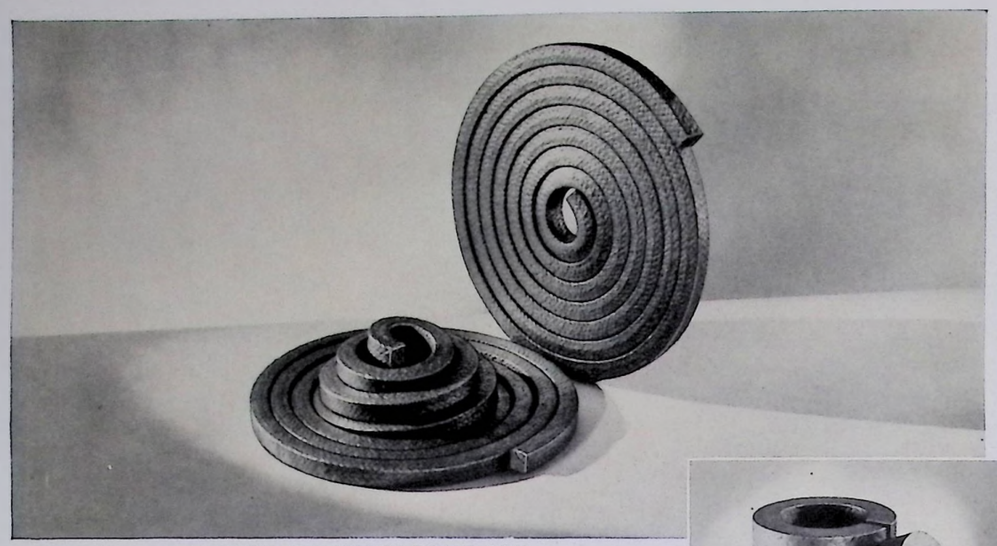
GARLOCK 730 Rings are furnished in packing space sizes from $\frac{3}{8}$" to 1" inclusive, formed to specified rod and stuffing box dimensions.

The table below shows the number of coils and the approximate weight and footage per box of GARLOCK 730 Coil of a few standard sizes:

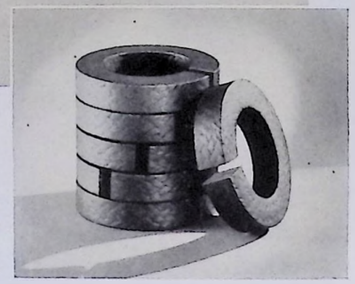
GARLOCK 730 COIL

Size	Coils per Box	Feet per Box	Weight per Box
$\frac{3}{8}$"	4	108 ft.	$12\frac{1}{2}$ lbs.
$\frac{1}{2}$"	3	60 ft.	$12\frac{3}{8}$ lbs.
$\frac{5}{8}$"	3	48 ft.	$13\frac{5}{8}$ lbs.
$\frac{3}{4}$"	2	28 ft.	$11\frac{1}{2}$ lbs.
$\frac{7}{8}$"	2	24 ft.	$13\frac{3}{8}$ lbs.
1"	1	19 ft.	$13\frac{7}{8}$ lbs.

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GARLOCK 731 LATTICE-BRAID COIL
(Patented)



GARLOCK 731
RINGS

Construction—GARLOCK 731 Lattice-Braid packing is manufactured by the patented Lattice-Braid process from long fibre asbestos yarn. This material receives a special *controlled lubrication* treatment by which every strand in the packing is properly lubricated but without any excess lubrication, either external or internal.

Service—GARLOCK 731 is specially recommended for service on rods operating against steam, gas, acids, lye and caustic soda solutions.

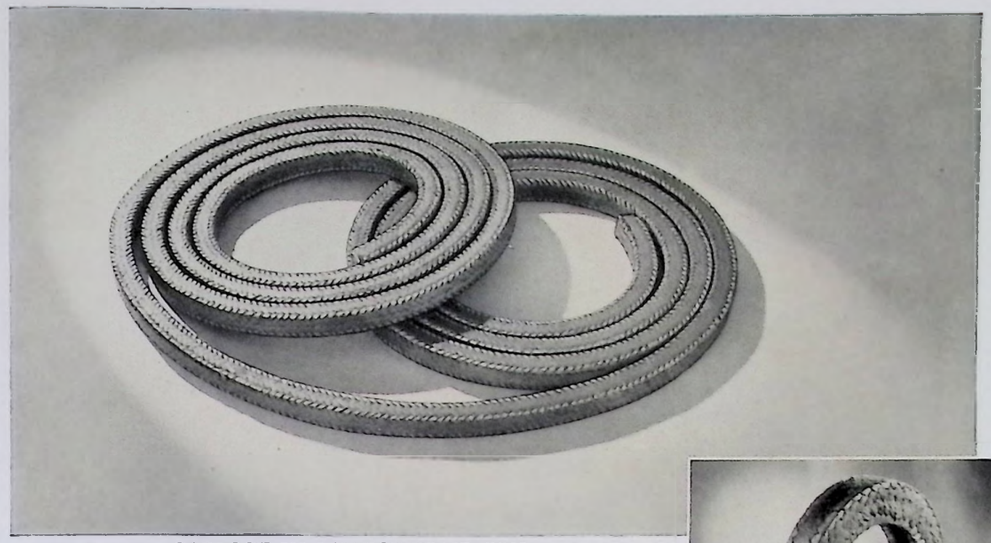
Form—GARLOCK 731 Coil is manufactured in sizes from 3/8" to 1" inclusive, advancing by sixteenths. It is available either in standard coil lengths or in continuous lengths on reels.

GARLOCK 731 Rings are furnished in packing space sizes from 3/8" to 1" inclusive, formed to fit specified rod and stuffing box dimensions.

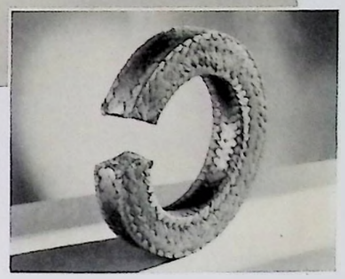
The number of coils and approximate footage and weight per box of a few standard sizes of GARLOCK 731 Coil are shown below:

GARLOCK 731 COIL

Size	Coils per Box	Feet per Box	Weight per Box
3/8"	4	108 ft.	11 lbs.
1/2"	3	60 ft.	10 1/2 lbs.
5/8"	3	48 ft.	12 lbs.
3/4"	2	28 ft.	10 1/8 lbs.
7/8"	2	24 ft.	11 7/8 lbs.
1"	1	19 ft.	12 1/4 lbs.



GARLOCK 732 LATTICE-BRAID COIL
(Patented)



GARLOCK 732
RINGS

Construction—GARLOCK 732 Lattice-Braid packing is manufactured by the patented Lattice-Braid process from long fibre, wire-inserted asbestos yarn, reinforced and armored with copper-wire strands running diagonally through the packing in both directions from corner to corner. In this construction, the flexibility inherent in all Lattice-Braid packings is combined with extraordinary sturdiness resulting from the copper wire reinforcing strands and corners. A controlled lubrication process provides ample lubrication for every asbestos strand in this material without any excess lubrication, either external or internal.

Service—GARLOCK 732 is a high-pressure packing recommended for heavy duty service against high pressure steam or hot oil. It is a splendid expansion joint packing.

Form—GARLOCK 732 Coil is manufactured in sizes from 3/8" to 1" inclusive, advancing by sixteenths. It is available either in standard coil lengths or in continuous lengths on reels.

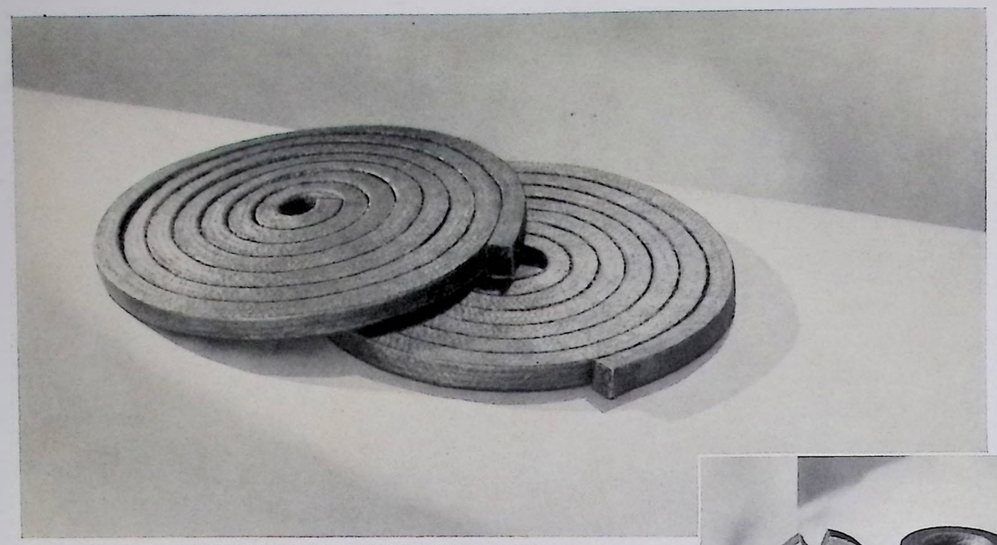
GARLOCK 732 Rings are furnished in packing space sizes from 3/8" to 1" inclusive, formed to fit specified rod and stuffing box dimensions.

The table below shows the number of coils and the approximate footage and weight per box of GARLOCK 732 Coil in a few standard sizes:

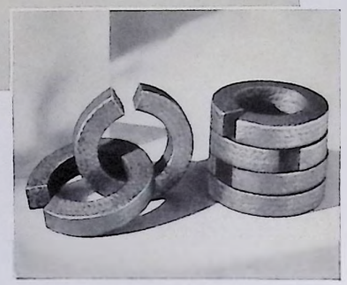
GARLOCK 732 COIL

Size	Coils per Box	Feet per Box	Weight per Box
3/8"	1	54 ft.	10 3/4 lbs.
1/2"	1	40 ft.	13 1/8 lbs.
5/8"	1	32 ft.	15 1/8 lbs.
3/4"	1	20 ft.	13 5/8 lbs.
7/8"	1	18 ft.	16 lbs.
1"	1	15 ft.	17 1/4 lbs.

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GARLOCK 736 LATTICE-BRAID COIL
(Patented)



GARLOCK 736
RINGS

Construction—GARLOCK 736 Lattice-Braid packing is manufactured by the patented Lattice-Braid process from pure, blue asbestos yarn. It is thoroughly impregnated throughout with a special GARLOCK lubricant and graphite.

Service—The blue asbestos from which GARLOCK 736 is manufactured is highly resistant to acids. This material, therefore, is specially recommended for service on the shafts of centrifugal or rotary pumps handling acids or strong chemical solutions.

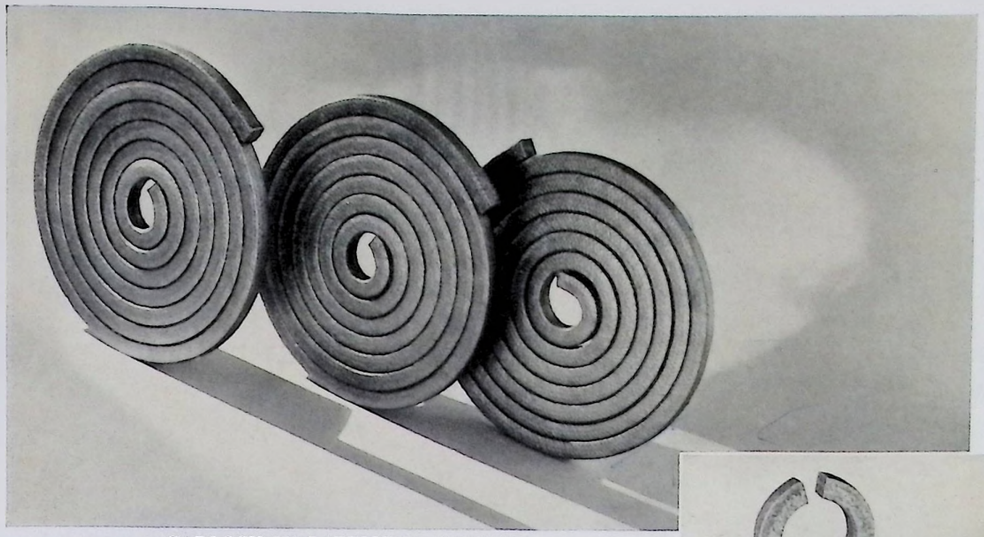
Form—GARLOCK 736 Coil is manufactured in sizes from 3/8" to 1" inclusive, advancing by sixteenths. It is available either in standard coil lengths or in continuous lengths on reels.

GARLOCK 736 Rings are furnished in packing sizes from 3/8" to 1" inclusive, formed to fit specified rod and stuffing box dimensions.

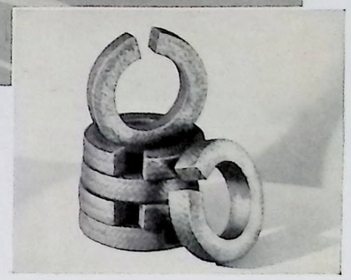
GARLOCK 736 Coil is packaged in boxes containing the number of coils and approximate footage and weight indicated in the table below:

GARLOCK 736 COIL

Size	Coils per Box	Feet per Box	Weight per Box
3/8"	3	81 ft.	9 lbs.
1/2"	3	63 ft.	12 lbs.
5/8"	2	32 ft.	9 1/2 lbs.
3/4"	2	28 ft.	12 lbs.
7/8"	2	22 ft.	12 3/4 lbs.
1"	1	20 ft.	15 1/8 lbs.



GARLOCK 751 LATTICE-BRAID COIL
(Patented)



GARLOCK 751
RINGS

Construction—GARLOCK 751 Lattice-Braid packing is manufactured by the patented Lattice-Braid process from best grade long staple cotton. It is thoroughly impregnated with a special GARLOCK lubricant and graphite.

Service—GARLOCK 751 is specially recommended for application to the shafts of centrifugal or rotary pumps handling cold oil or water.

Form—GARLOCK 751 Coil is manufactured in sizes from 3/8" to 1" inclusive, advancing by sixteenths. It is available either in standard coil lengths or in continuous lengths on reels.

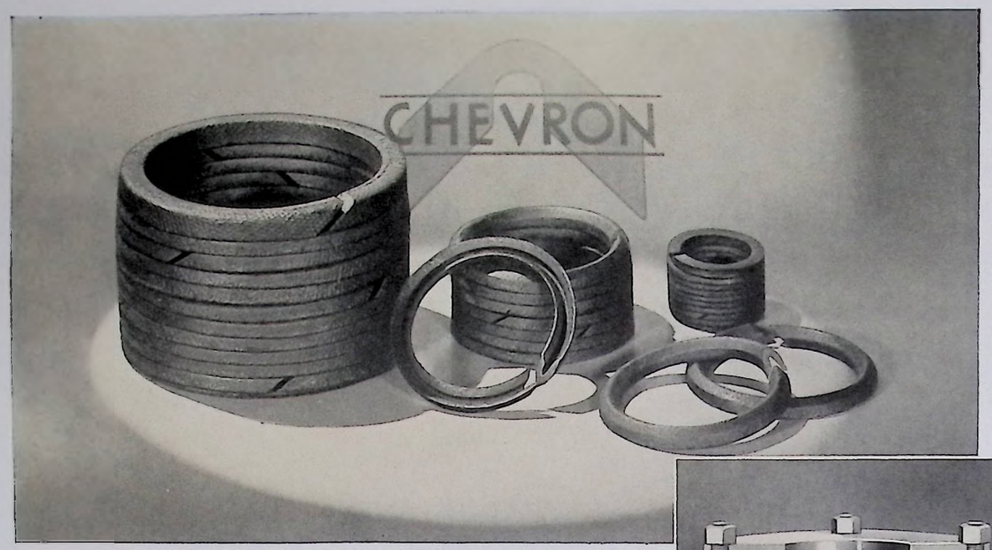
GARLOCK 751 Rings are furnished in packing sizes from 3/8" to 1", inclusive, formed to fit specified rod and stuffing box dimensions.

The table below shows number of coils and approximate footage and weight per box of GARLOCK 751 Coil in a few standard sizes:

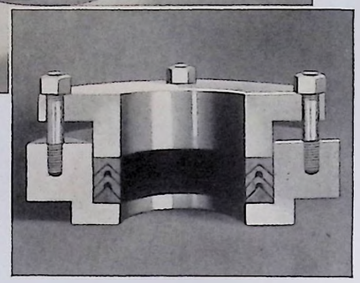
GARLOCK 751 COIL

Size	Coils per Box	Feet per Box	Weight per Box
3/8"	5	150 ft.	14 lbs.
1/2"	4	80 ft.	11 lbs.
5/8"	3	51 ft.	10 3/8 lbs.
3/4"	3	42 ft.	12 1/4 lbs.
7/8"	3	36 ft.	14 1/4 lbs.
1"	1	27 ft.	13 3/4 lbs.

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GARLOCK CHEVRON PACKING



APPLICATION OF GARLOCK CHEVRON TO A SHALLOW STUFFING BOX

Construction—GARLOCK Chevron Packing, which is manufactured only by The GARLOCK Packing Company, is produced from several different materials to meet specific service requirements. All Chevron rings are molded into the unique and exclusive hinge-like, cross-sectional shape illustrated. This design permits the packing to expand and contract automatically as pressures vary, resulting in minimum friction and wear on the rod or plunger at any pressure. The Chevron shape, which permits each ring to nest within the adjacent ring, makes possible the application of a plurality of rings in a limited packing depth, making Chevron particularly desirable for use in shallow stuffing boxes.

On unusually severe operating conditions the effective life of Chevron packing may be increased by alternating the Chevron rings with metal separator rings 1/16" thick, made of lead or other suitable metal.

Form—GARLOCK Chevron Packing is furnished in ring form only, molded accurately to any practicable rod and stuffing box diameters. A complete set of Chevron consists of one top adapter ring, one bottom adapter ring and a sufficient number of Chevron rings to produce a set of the required depth. When so specified, adapter rings are supplied to fit beveled glands and stuffing boxes.

Application—Because GARLOCK Chevron Packing is entirely automatic in action and extremely sensitive to pressure changes, very little gland pressure is required. When applying Chevron, each ring should be inserted separately and seated firmly against the adjacent ring in the stuffing box. The gland should then be drawn up lightly and there will be no leakage on the power stroke and no gripping of the packing on the rod on the return stroke. Excessive gland pressure prevents the automatic action of the packing and shortens its serviceable life.

Service—The several types of Chevron packing and the service for which each is recommended are described on the opposite page.

GARLOCK 430
(For Hot or Cold Water)

GARLOCK 430 Chevron is made of special cotton duck cloth and a GARLOCK rubber compound. It is recommended for service against hot or cold water and is an outstanding packing for the heaviest hydraulic pressures such as rams or plungers on elevators, accumulators, presses, outside packed pumps and triplex pumps.

GARLOCK 431
(For Cold Oils and Rubber Solvents)

GARLOCK 431 Chevron receives a special oil-resistant treatment and is recommended for service against oils and other rubber solvents at medium or low temperatures.

GARLOCK 530
(For Steam, Air or Gas)

GARLOCK 530 Chevron is made of special GARLOCK asbestos cloth and a high-grade rubber compound. It is recommended for service on piston rods, plungers or shafts operating against steam, gas or air at high temperatures and pressures. It is an exceptionally serviceable packing on the throttle stems of steam locomotives.

GARLOCK 531
(For Hot Oils and Rubber Solvents)

GARLOCK 531 Chevron is made of asbestos cloth and is specially treated to resist the deteriorating effects of oils and other rubber solvents at high pressures and temperatures.

GARLOCK 8051
(For Dairy Equipment)

GARLOCK 8051 Chevron is a cotton duck cloth packing made with a pure white rubber compound. It is intended primarily for use on homogenizers, viscolizers and other milk handling equipment, but is also suitable for other low or medium temperature applications requiring a white packing to prevent discoloration of the liquids in contact with the packing.

GARLOCK 7256
(Neoprene)

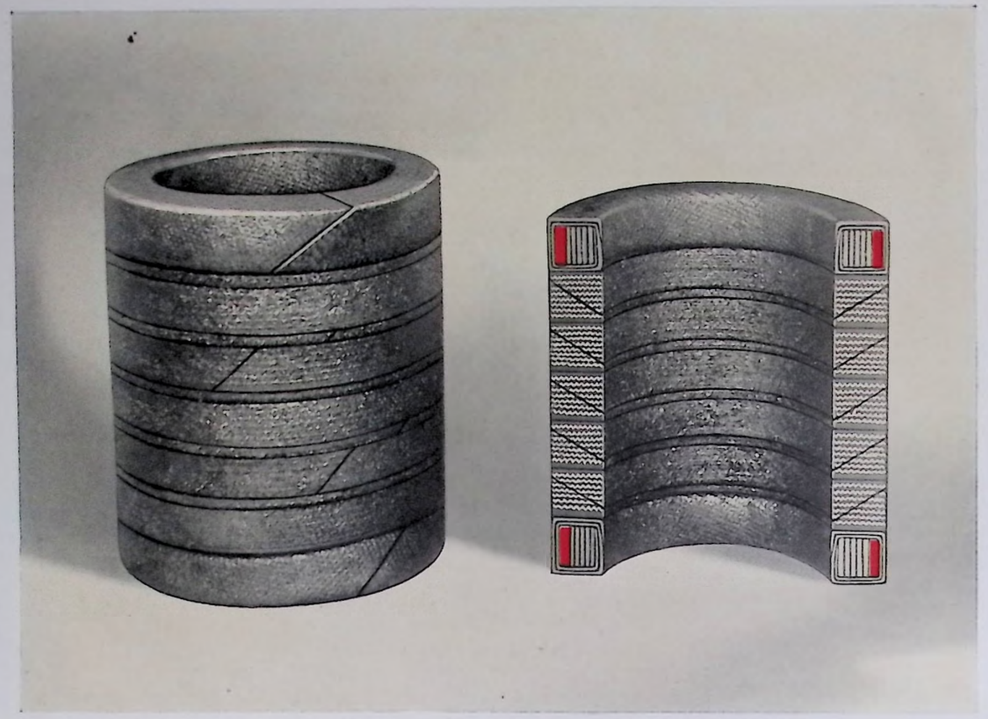
GARLOCK 7256 Chevron is a cotton duck cloth packing made with Neoprene. It is for low and medium temperature service on those applications where the oil resisting qualities of Neoprene are required.

GARLOCK 8199
(Neoprene)

GARLOCK 8199 Chevron is an asbestos cloth packing made with Neoprene and is intended for high temperature service where a packing having the oil resisting qualities of Neoprene is required.

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STEAM DUO PACKING



GARLOCK 446

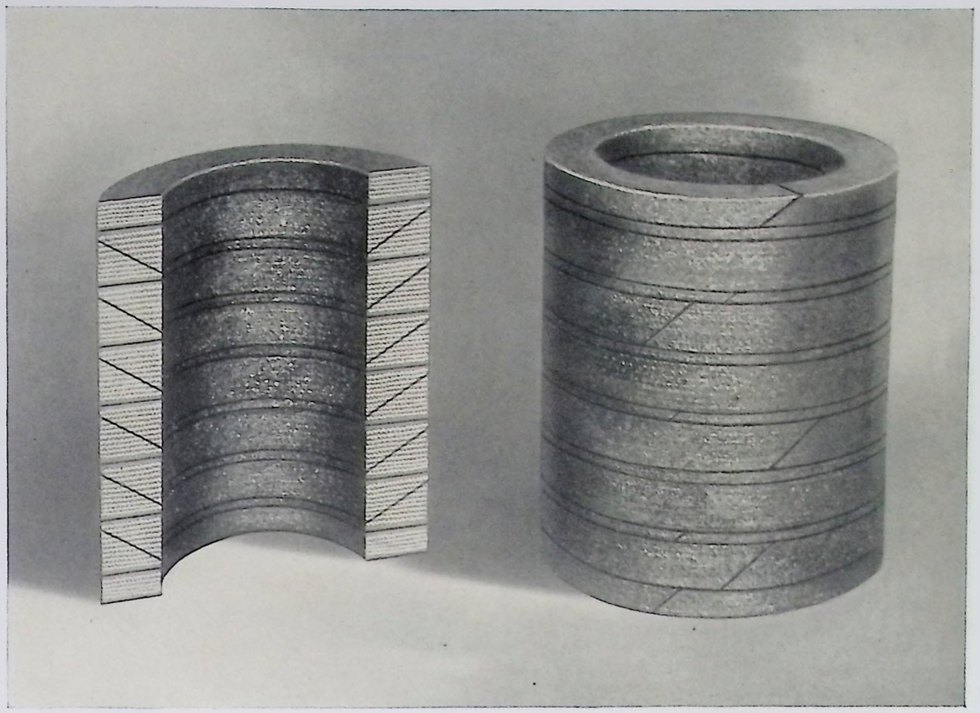
Construction—GARLOCK 446 is a combination packing consisting of end rings of GARLOCK 200 high-pressure asbestos packing and center rings of GARLOCK 550 diagonal cut duck and rubber steam packing.

Service—Recommended for service on piston rods of steam engines working against pressures up to 125 pounds per square inch; also for the intermediate and low-pressure piston rods of triple expansion marine engines.

Form—GARLOCK 446 is furnished in any required size to fit rod and stuffing box dimensions.

In ordering, the diameter of the rod, the inside diameter of the stuffing box and depth of stuffing box should be given.

STEAM HAMMER DUO PACKING



GARLOCK 449

Construction—GARLOCK 449 is a combination packing consisting of end rings of GARLOCK 333 duck and rubber steam packing, and center rings of GARLOCK 550 diagonal cut duck and rubber steam packing.

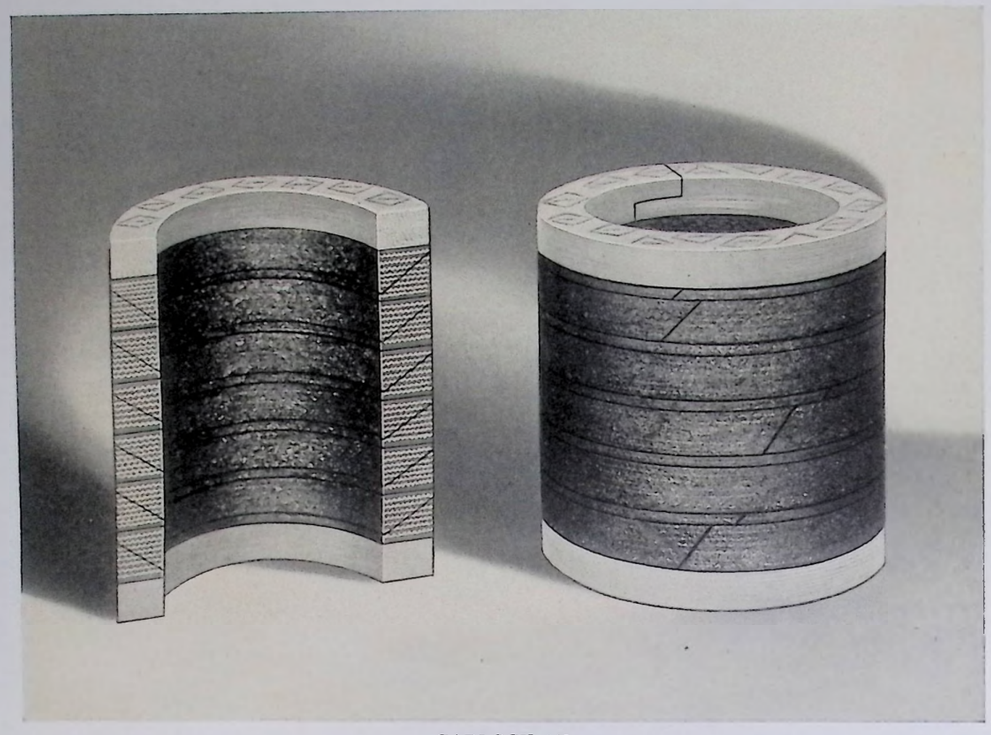
Service—Recommended for service on piston rods of steam hammers at steam pressures up to 100 pounds per square inch. It is particularly recommended for use on worn or scored rods; also on rods having considerable vibration or sway.

Form—GARLOCK 449 is furnished in any required size to fit rod and stuffing box dimensions.

In ordering, the diameter of the rod, the inside diameter of the stuffing box and depth of stuffing box should be given.

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HOT OR COLD WATER DUO PACKING



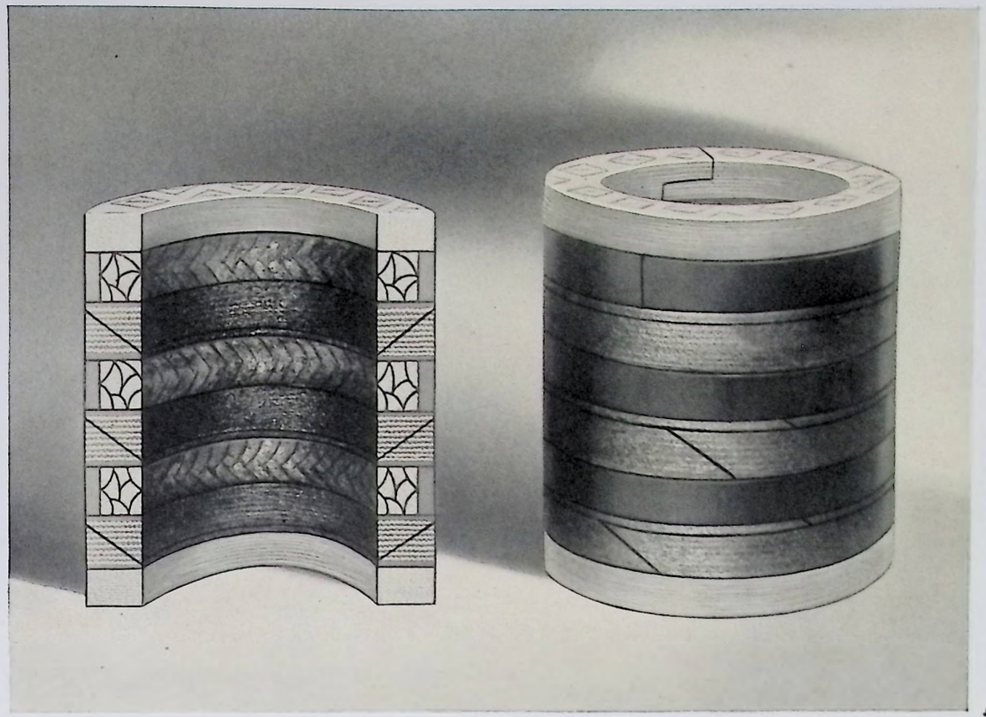
GARLOCK 440

Construction—GARLOCK 440 is a combination packing consisting of end rings of GARLOCK 261 special hydraulic and center rings of GARLOCK 550 diagonal cut duck and rubber steam packing.

Service—Recommended for hot or cold water service on outside packed plunger pumps. Particularly serviceable on worn or scored plungers.

Form—GARLOCK 440 is obtainable in any required size to fit rod and stuffing box dimensions.

In ordering, the diameter of the rod, the inside diameter of the stuffing box and depth of stuffing box should be given.



GARLOCK 443

Construction—GARLOCK 443 is a combination packing consisting of end rings of GARLOCK 261 special hydraulic, and alternated center rings of GARLOCK 193 rubber back waterproof hydraulic packing and GARLOCK 550 diagonal cut duck and rubber steam packing.

Service—Recommended for service on the plungers of outside packed pumps handling hot water.

Form—GARLOCK 443 is obtainable in any required size to fit rod and stuffing box dimensions.

In ordering, the diameter of the rod, the inside diameter of the stuffing box and depth of stuffing box should be given.

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HOT WATER DUO PACKING

GARLOCK 1900

Construction—Garlock 1900 is a combination packing consisting of end rings of Garlock 261 hydraulic packing and center rings of specially constructed duck and rubber. The plies of the special center rings run horizontal with the rod.

Service—Recommended for service on outside packed pumps conveying hot water.

Form—Sets of Garlock 1900 are furnished in any required size to fit rod and stuffing box dimensions.

In ordering, the diameter of the rod, the inside diameof the stuffing box and the depth of the stuffing box should be given.

HOT WATER DUO PACKING

GARLOCK 1906

Construction—Garlock 1906 is a combination packing consisting of end rings of Garlock 333 duck and rubber packing and alternating center rings of Garlock 275 cushion center duck and rubber packing, and Garlock 550 diagonal cut duck and rubber packing.

Service—Recommended for hot water service on the plungers of outside packed pumps at high temperatures and medium pressures.

Form—Garlock 1906 is furnished in any required size to fit plunger and stuffing box dimensions.

In ordering, the diameter of the plunger, the inside diameter of the stuffing box and depth of stuffing box should be given.

HOT WATER DUO PACKING

GARLOCK 1907

Construction—Garlock 1907 is a combination packing consisting of end rings of Garlock 261 special hydraulic packing, and alternating center rings of Garlock 275 cushion center duck and rubber packing and Garlock 550 diagonal cut duck and rubber packing.

Service—Recommended for service on outside packed plunger pumps working against hot water at high temperatures and high pressures.

Form—Garlock 1907 is furnished in any required size to fit plunger and stuffing box dimensions.

In ordering, the diameter of the plunger, the inside diameter of the stuffing box and depth of stuffing box should be given.

HYDRAULIC DUO PACKING

GARLOCK 960

Construction—Garlock 960 is a combination packing consisting of end rings of Garlock 346 braided copper wire packing and alternated center rings of Garlock 216 metal inner wedge duck and rubber packing, and Garlock 99 waterproof hydraulic packing.

Service—Recommended for extremely high-pressure hydraulic service on rams or plungers of presses, accumulators, and hydraulic pumps.

Form—Garlock 960 is furnished in any required size to fit rod and stuffing box dimensions.

In ordering, the diameter of the rod, the inside diameter of the stuffing box and depth of stuffing box should be given.

HYDRAULIC DUO PACKING

GARLOCK 980

Construction—Garlock 980 is a combination packing consisting of end rings of Garlock 99 waterproof hydraulic packing and center rings of Garlock 550 diagonal cut duck and rubber packing.

Service—Recommended for cold water service on the plungers of outside packed pumps.

Form—Garlock 980 is furnished in any required size to fit plunger and stuffing box dimensions.

In ordering, the diameter of the plunger, the inside diameter of the stuffing box and depth of stuffing box should be given.

HYDROSTATIC DUO PACKING

GARLOCK 965

Construction—Garlock 965 is a combination packing consisting of soft metal rings, Garlock 346 braided copper wire rings, and Garlock 99 waterproof hydraulic rings.

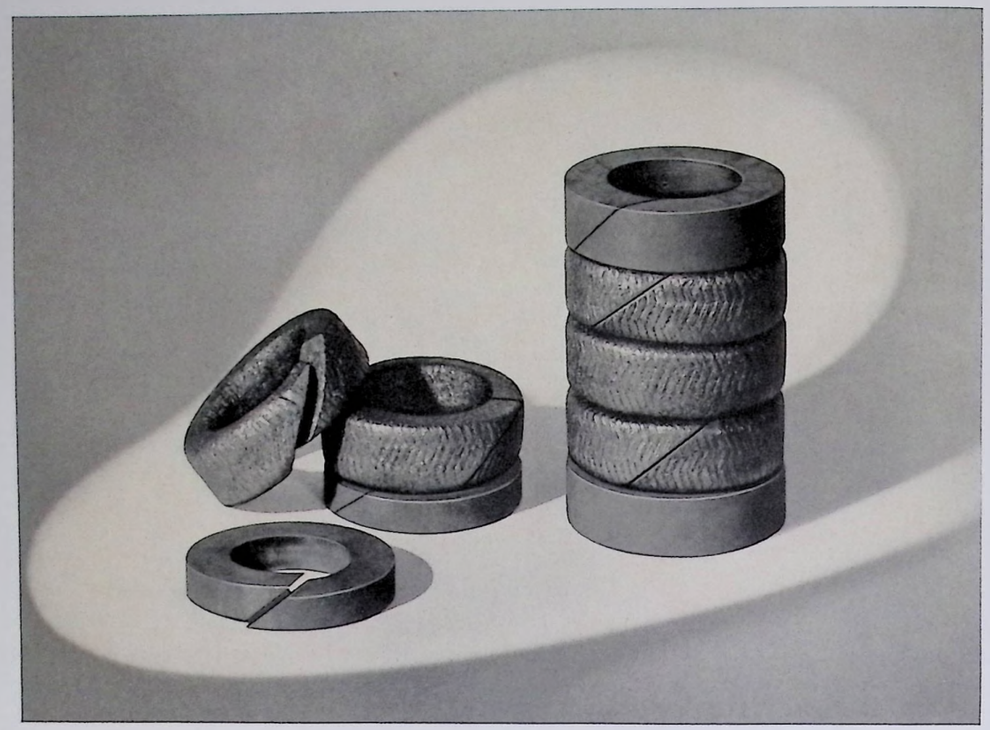
Service—Garlock 965 is designed to hold the heaviest hydraulic pressures and is recommended for service on heavy duty rams or plungers of presses, accumulators and outside packed hydraulic pumps.

Form—Garlock 965 is furnished in any required size to fit rod and stuffing box dimensions.

In ordering, the diameter of the rod, the inside diameter of the stuffing box and depth of stuffing box should be given.

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SLUSH PUMP PACKINGS



GARLOCK 400 SLUSH PUMP PACKING

Construction—Garlock 400 is a combination set packing, consisting of center rings of Garlock 67 diagonal packing and end rings of Garlock 353 oil-resistant rubber.

Service—Garlock 400 is recommended for service on piston rods of slush pumps used extensively in the oil fields. It is recommended for service in the most severe conditions.

Form—Garlock 400 is furnished in sizes to fit all standard slush pump equipment. In ordering, indicate the diameter of piston rod, inside diameter of stuffing box and depth of stuffing box.

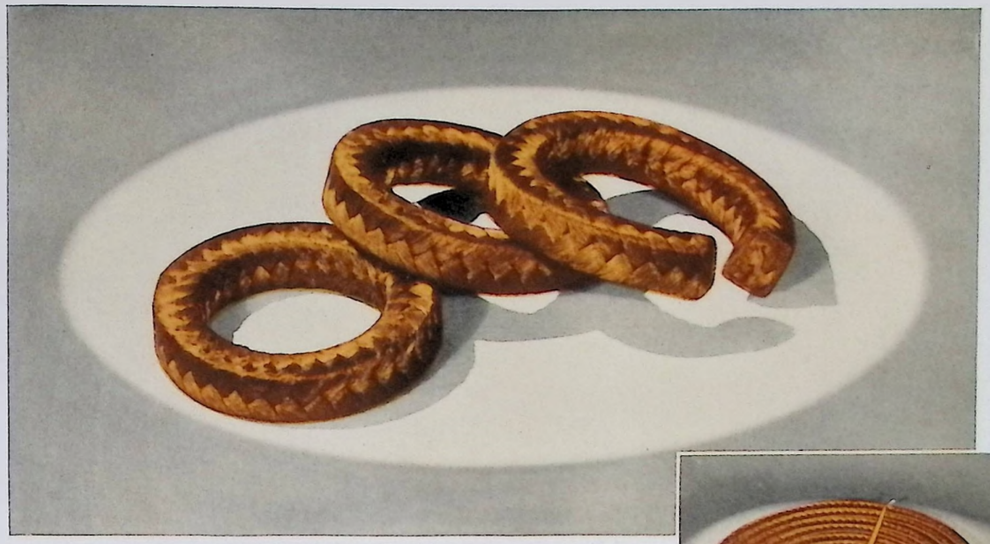
GARLOCK 405 SLUSH PUMP PACKING

Construction—Garlock 405 is a combination set packing, consisting of center rings of a good grade diagonal packing and Garlock 151 gray rubber end rings.

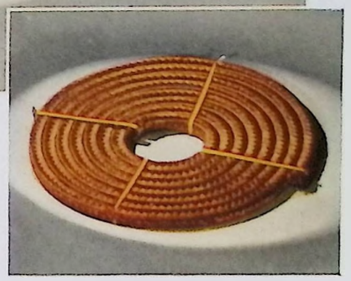
Service—Garlock 405 is recommended for service on piston rods of slush pumps where service conditions are not extremely severe.

Form—Garlock 405 is furnished in sizes to fit all standard slush pump equipment. In ordering, indicate the diameter of piston rod, inside diameter of stuffing box and depth of stuffing box.

BRAIDED COPPER WIRE PACKING



GARLOCK 346 RINGS



GARLOCK
344 COIL

Construction—Garlock Braided Copper Wire Packing is manufactured from fine strand copper wire, braided approximately square in cross section.

Service—Recommended as an end ring in the bottom of stuffing boxes against heavy hydraulic duty. Also used on both ends of packing sets on heavy horizontal plungers, in which service the packing frequently bears a portion of the weight of the plunger.

Form—This material is supplied in two forms—Garlock 344 Coil and Garlock 346 Ring.

Garlock 346 Rings are cut from Garlock 344 Coil and are furnished to fit any rod and stuffing box dimensions.

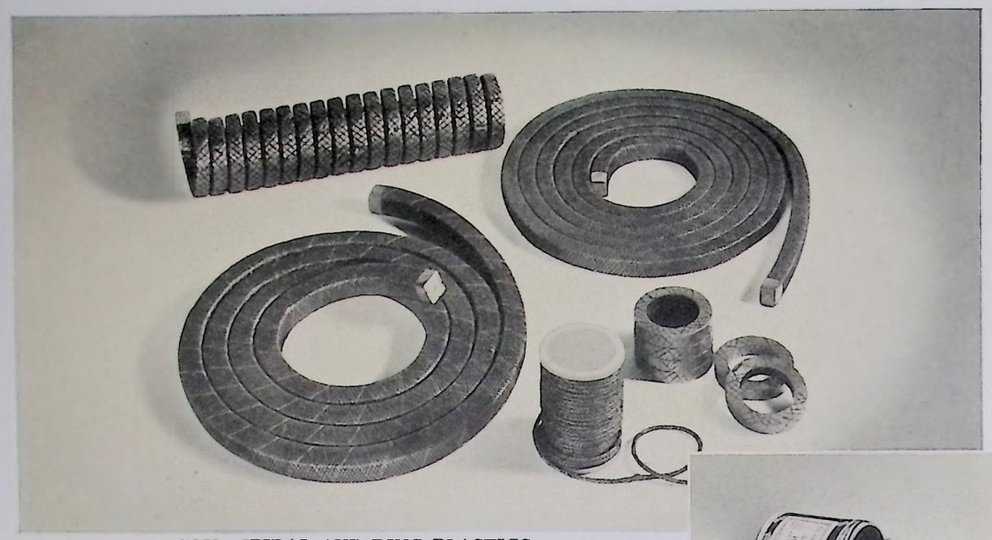
Garlock 344 Coil is manufactured in all packing sizes from 3/16" to 1 1/4", advancing by sixteenths. It is regularly boxed in the manner indicated below, but can also be furnished in continuous length on reels.

The following table lists footage and approximate weights on some standard sizes of Garlock 344 Coil:

GARLOCK 344 COIL

Size	Coils per Box	Feet per Box	Weight per Box
1/4"	2	78 ft.	11 lbs.
3/8"	1	28 ft.	10 lbs.
1/2"	1	18 ft.	10 lbs.
5/8"	1	16 ft.	14 lbs.
3/4"	1	13 ft.	20 lbs.
7/8"	1	11 ft.	20 lbs.
1"	1	17 1/2 ft.	41 lbs.

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COIL, SPIRAL AND RING PLASTICS



LOOSE OR BULK PLASTIC

Construction—GARLOCK Plastallic Packings are scientifically compounded to GARLOCK formulae and contain only the purest asbestos fibre, soft metals, graphite and lubricants. The ingredients used in each formula are selected and proportioned to produce a plastic material suitable for the service for which the packing is intended.

Service—Plastallic packings are made in seven different types or styles, each of which is recommended for specific service conditions. A description of each of these types, together with information concerning the operating conditions for which it is designed, appears on the following pages.

Form—GARLOCK Plastallics are manufactured in loose or bulk form, in coils, in spiral and in formed rings as indicated in the descriptions and tables covering the several types. A feature of these plastics is that most coil forms are furnished rectangular in cross section so that a single size coil fits perfectly two different packing spaces without crushing or deforming the packing. As an example, size 2X coil which measures ½" x ⅝" in cross section fits a ½" packing space when applied with the ⅝" dimension parallel to the rod, and fits a ⅝" packing space equally well when applied with the ½" dimension parallel to the rod. The advantages of this out-of-square shape are apparent.

Application—The application of Plastallic packings is extremely simple. Loose or bulk form is applied by tamping the packing tightly in the stuffing box and drawing up on the gland until there is no leakage. Coil, spiral and ring forms of plastic are applied in the same manner as the corresponding forms of standard packings.

After Plastallic has been installed and the equipment placed in operation, the packing combines or amalgamates into one homogeneous mass or bushing. When, and if, additional packing is required it is not necessary to remove the packing from the stuffing box; just back off the gland, add more Plastallic and draw up on the gland enough to prevent leakage.

GARLOCK 926

GARLOCK 926 Plastallic is for use against water, steam or air at temperatures below 550° F.

GARLOCK 926 in loose or bulk form is packaged in 2½-pound tin cans, each containing a coil of shredded metal for forming bottom rings in stuffing boxes. Coil form is supplied in the sizes indicated in the table and may be identified by the red and yellow strands in the open-braided, black cover. Rings are furnished to specified diameters and thicknesses.

Size designations, nominal cross-sectional dimensions and approximate weight and footage per box of GARLOCK 926 Coil are shown below:

GARLOCK 926 COIL

For Packing Spaces Measuring	Specify Size	Nominal Size of Packing	Feet per Box	Weight per Box
3/16" or smaller	0X	3/32" round	205 ft.	5 lbs.†
1/4" to 5/16" inclusive	X	1/4" x 5/16"	50½ ft.	5 lbs.*
3/8" to 7/16" inclusive	3-8X	3/8" x 7/16"	24 ft.	5 lbs.*
1/2" to 11/16" inclusive	2X	1/2" x 5/8"	51 ft.	20¼ lbs.
3/4" to 15/16" inclusive	3X	3/4" x 7/8"	26 ft.	21¾ lbs.
1" and above	4X	1" square	20 ft.	25½ lbs.

†This size packaged on 1-lb., 2-lb., and 5-lb. spools. *Packaged on spool.

GARLOCK 927

GARLOCK 927 Plastallic is a durable packing for general use and is specially recommended for service against gasoline, kerosene, oils, ether, carbon tetrachloride, methyl chloride, mild acids and alkalies where operating temperatures do not exceed 550° F.

Loose or bulk form of GARLOCK 927 is packaged in 2½-pound tin cans, each containing a coil of shredded metal for forming bottom rings for stuffing boxes. Coil form is made in the sizes shown in the table and may be identified by the single red strand in the black, open-braided cover. Rings are furnished to specified diameters and thicknesses.

Size designations, nominal cross-sectional dimensions and approximate weight and footage per box of GARLOCK 927 Coil are indicated below:

GARLOCK 927 COIL

For Packing Spaces Measuring	Specify Size	Nominal Size of Packing	Feet per Box	Weight per Box
3/16" or smaller	0X	3/32" round	200 ft.	5 lbs.†
1/4" to 5/16" inclusive	X	1/4" x 5/16"	49 ft.	5 lbs.*
3/8" to 7/16" inclusive	3-8X	3/8" x 7/16"	23¼ ft.	5 lbs.*
1/2" to 11/16" inclusive	2X	1/2" x 5/8"	51 ft.	21 lbs.
3/4" to 15/16" inclusive	3X	3/4" x 7/8"	26 ft.	22¼ lbs.
1" and above	4X	1" square	20 ft.	26 lbs.

†This size packaged on 1-lb., 2-lb., and 5-lb. spools. *Packaged on spool.

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GARLOCK 928

GARLOCK 928 Plastallic is a high temperature plastic for use against steam or oil where temperatures are in excess of 550° F.

In loose or bulk form GARLOCK 928 is packaged in 2-lb. tin cans. Coil form is furnished in the sizes indicated in the table and may be identified by the single yellow strand in the open-braided, black cover. Rings are furnished to specified diameters and thicknesses.

Size designations, nominal cross-sectional dimensions and approximate weight and footage per box of GARLOCK 928 Coil are shown below.

GARLOCK 928 COIL

For Packing Spaces Measuring	Specify Size	Nominal Size of Packing	Feet per Box	Weight per Box
3/16" or smaller	OX	3/32" round	225 ft.	5 lbs.†
1/4" to 5/16" inclusive	X	1/4" x 5/16"	54 1/2 ft.	5 lbs.*
3/8" to 7/16" inclusive	3-8X	3/8" x 7/16"	25 3/4 ft.	5 lbs.*
1/2" to 11/16" inclusive	2X	1/2" x 5/8"	51 ft.	18 5/8 lbs.
3/4" to 15/16" inclusive	3X	3/4" x 7/8"	26 ft.	20 lbs.
1" and above	4X	1" square	20 ft.	23 1/2 lbs.

†This size packaged on 1-lb., 2-lb., and 5-lb. spools. *Packaged on spool.

GARLOCK 929

GARLOCK 929 Plastallic is a general service plastic for service against steam or water where operating temperatures do not exceed 550° F.

Loose or bulk form of GARLOCK 929 is packaged in 2 1/2-lb. tin cans, each containing a coil of shredded metal for use in forming bottom rings in the stuffing boxes. Coil form is made in the sizes indicated in the table and may be identified by the single green strand in the black, open-braided cover. Rings are furnished to specified diameters and thicknesses.

Size designations, nominal cross-sectional dimensions and approximate weight and footage per box of GARLOCK 929 Coil are shown below.

GARLOCK 929 COIL

For Packing Spaces Measuring	Specify Size	Nominal Size of Packing	Feet per Box	Weight per Box
3/16" or smaller	OX	3/32" round	215 ft.	5 lbs.†
1/4" to 5/16" inclusive	X	1/4" x 5/16"	53 1/4 ft.	5 lbs.*
3/8" to 7/16" inclusive	3-8X	3/8" x 7/16"	26 ft.	5 lbs.*
1/2" to 11/16" inclusive	2X	1/2" x 5/8"	51 ft.	19 lbs.
3/4" to 15/16" inclusive	3X	3/4" x 7/8"	26 ft.	20 1/2 lbs.
1" and above	4X	1" square	20 ft.	24 lbs.

†This size packaged on 1-lb., 2-lb., and 5-lb. spools. *Packaged on spool.

GARLOCK 930

GARLOCK 930 Plastallic is a nonmetallic, plastic packing for use against gasoline, oils, kerosene, gases and mild acid or alkali solutions either at high or low operating temperatures.

GARLOCK 930 is not made in loose or bulk form. Coil form is furnished in the sizes shown in the table. Spiral form also is available, packaged one 12 1/2-ft. spiral per box. Both coil and spiral forms may be identified by the two red strands in the black, open-braided cover. Rings are furnished to specified diameters and thicknesses.

Size designations and nominal cross-sectional dimensions of coil and spiral forms and approximate weight and footage per box of GARLOCK 930 Coil are shown in the table below.

For Packing Spaces Measuring	Specify Size	Nominal Size of Packing	Feet per Box	Weight per Box
3/16" or smaller	OX	3/32" round	375 ft.	5 lbs.†
1/4" to 5/16" inclusive	X	1/4" x 5/16"	92 ft.	5 lbs.*
3/8" to 7/16" inclusive	3-8X	3/8" x 7/16"	44 ft.	5 lbs.*
1/2" to 11/16" inclusive	2X	1/2" x 5/8"	51 ft.	11 1/4 lbs.
3/4" to 15/16" inclusive	3X	3/4" x 7/8"	26 ft.	11 5/8 lbs.
1" and above	4X	1" square	20 ft.	14 lbs.

†This size packaged on 1-lb., 2-lb., and 5-lb. spools. *Packaged on spool.

GARLOCK 931

GARLOCK 931 Plastallic is a nonmetallic, plastic packing for service against steam, water or air at high or low temperatures.

This material is not supplied in loose or bulk form. Coil form is furnished in the sizes indicated in the table and may be identified by the two green strands in the black, open-braided cover. Rings are supplied to specified diameters and thicknesses.

Size designations, nominal cross-sectional dimensions and approximate weight and footage per box of GARLOCK 931 Coil are shown below.

For Packing Spaces Measuring	Specify Size	Nominal Size of Packing	Feet per Box	Weight per Box
3/16" or smaller	OX	3/32" round	360 ft.	5 lbs.†
1/4" to 5/16" inclusive	X	1/4" x 5/16"	88 ft.	5 lbs.*
3/8" to 7/16" inclusive	3-8X	3/8" x 7/16"	42 ft.	5 lbs.*
1/2" to 11/16" inclusive	2X	1/2" x 5/8"	51 ft.	11 1/2 lbs.
3/4" to 15/16" inclusive	3X	3/4" x 7/8"	26 ft.	12 1/4 lbs.
1" and above	4X	1" square	20 ft.	14 1/2 lbs.

†This size packaged on 1-lb., 2-lb., and 5-lb. spools. *Packaged on spool.

GARLOCK 924

GARLOCK 924 is a nonmetallic, plastic packing made with pure blue asbestos fibre, recommended for use against acids and strong chemical solutions.

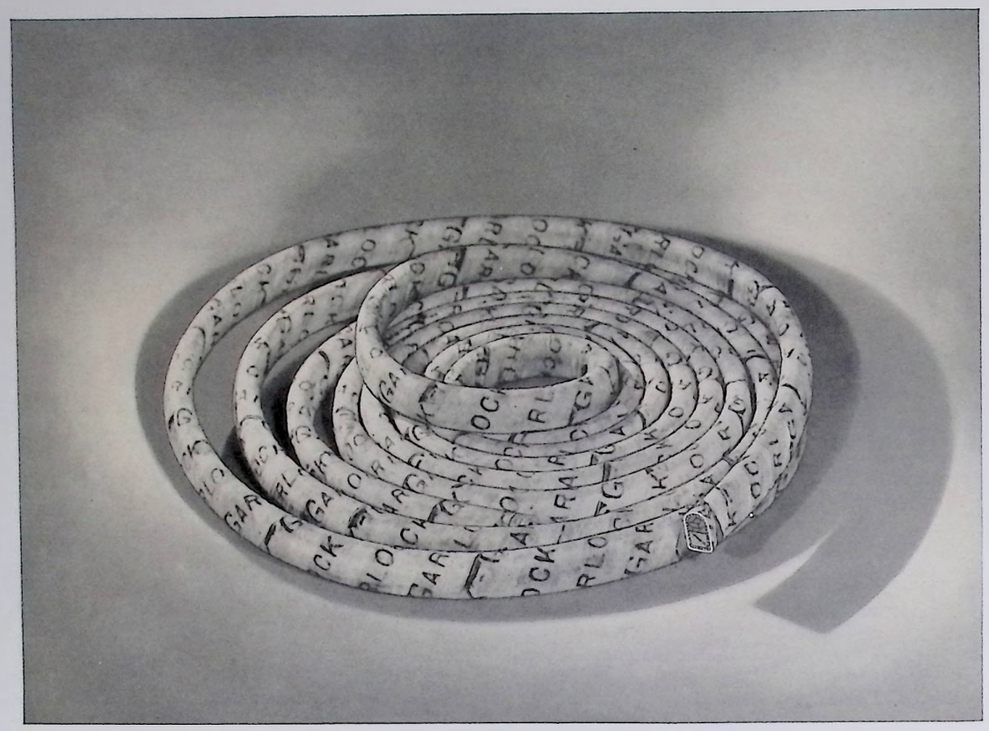
In loose or bulk form GARLOCK 924 is packaged in tin cans of approximately 1 3/4 lbs. net weight. Each can contains a coil of twisted lead strands for use in forming bottom rings in the stuffing box. Coil form is made in the sizes indicated below and may be identified by the one yellow and one green strand in the black, open-braided cover. Rings are furnished to specified inside and outside diameters and to approximate specified thicknesses.

Size designations and nominal cross-sectional dimensions of GARLOCK 924 Coil and approximate weight and footage per box are shown below:

For Packing Spaces Measuring	Specify Size	Nominal Size of Packing	Feet per Box	Weight per Box
3/16" or smaller	OX	3/32" round	350 ft.	5 lbs.†
1/4" to 5/16" inclusive	X	1/4" x 5/16"	85 ft.	5 lbs.*
3/8" to 7/16" inclusive	3-8X	3/8" x 7/16"	42 ft.	5 lbs.*
1/2" to 11/16" inclusive	2X	1/2" x 5/8"	51 ft.	11 1/2 lbs.
3/4" to 15/16" inclusive	3X	3/4" x 7/8"	26 ft.	12 1/4 lbs.
1" and above	4X	1" square	20 ft.	14 1/2 lbs.

†This size packaged on 1-lb., 2-lb., and 5-lb. spools. *Packaged on spool.

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GARLOCK 67

Construction—GARLOCK 67 is a diagonal packing having a fibrous cushion combined with diagonal wedges of duck and rubber. The component parts are held together with a braided cotton cover. It is thoroughly lubricated. For protection in handling and shipping, GARLOCK 67 is provided with a muslin cover. This should be removed before the packing is used.

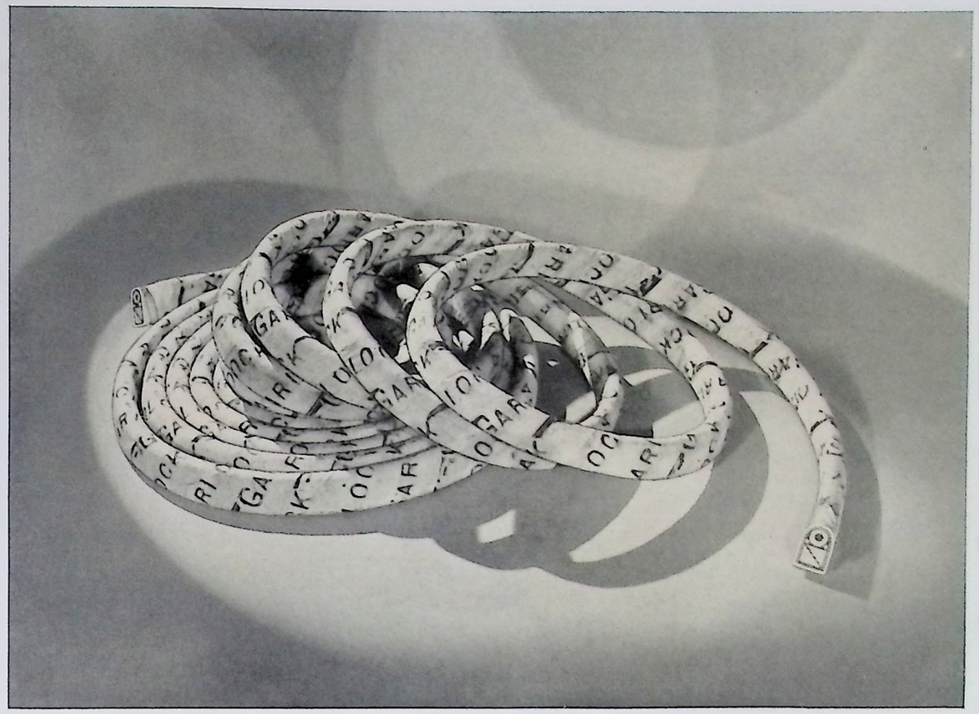
Service—Recommended for service against cold water and low-pressure steam. It is particularly effective on old equipment with worn rods.

Form—GARLOCK 67 has straight sides and bottom and a rounding top, the thickness being approximately double the packing space. It is furnished in coil form in sizes ¼" to 1½", or in cut rings.

Listed below are footage and approximate weight of some standard sizes:

GARLOCK 67 COIL

Size	Coils per Box	Feet per Box	Weight per Box
¼"	5	160 ft.	10 lbs.
3/8"	3	81 ft.	10 lbs.
½"	3	45 ft.	10 lbs.
5/8"	2	25 ft.	10¼ lbs.
¾"	3	25 ft.	15 lbs.
7/8"	4	25 ft.	20¼ lbs.
1"	3	25 ft.	26½ lbs.



GARLOCK 87

Construction—GARLOCK 87 is a diagonal packing having a duck-wrapped, rubber cushion combined with diagonal wedges of first-grade duck and rubber. The component parts are held together with a braided cotton cover. Packing is processed with a special lubricant. For protection in handling and shipping, GARLOCK 87 is provided with a muslin cover. This should be removed before the packing is used.

Service—Recommended for service against medium-pressure steam, hot or cold water. It is particularly effective on equipment having rods slightly worn or out of alignment.

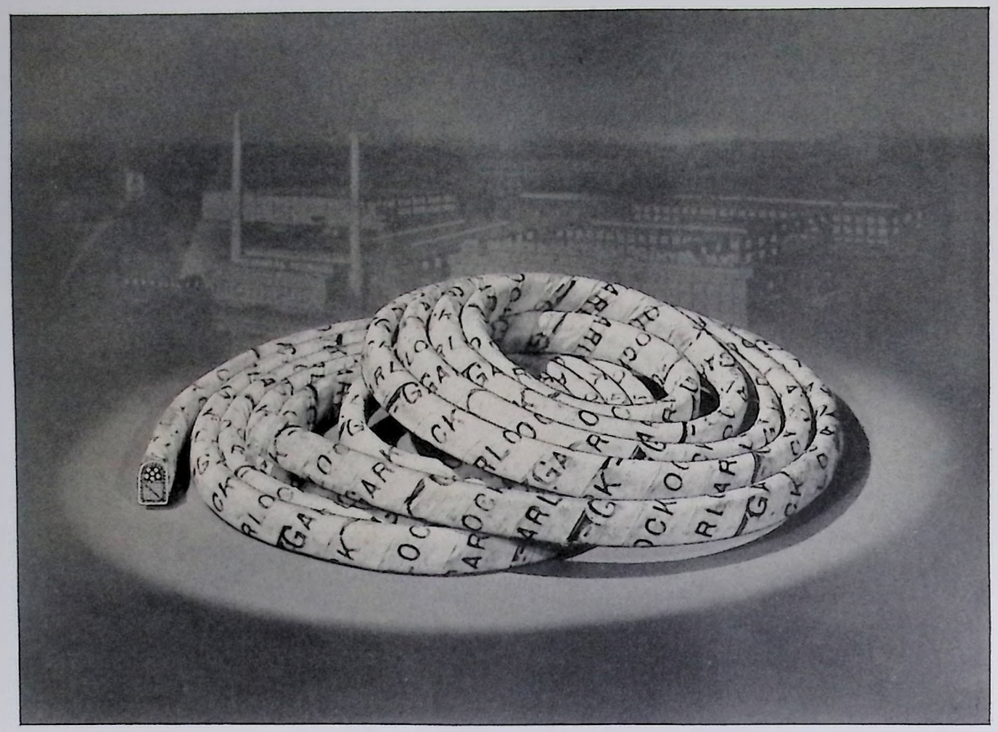
Form—GARLOCK 87 has straight sides and bottom and a rounding top, the thickness being approximately double the packing space. It is furnished in coil form in sizes ¼" to 1½", or in cut rings.

Listed below are footage and approximate weight of some standard sizes:

GARLOCK 87 COIL

Size	Coils per Box	Feet per Box	Weight per Box
¼"	5	160 ft.	10 lbs.
3/8"	3	63 ft.	10 lbs.
½"	3	40½ ft.	10 lbs.
5/8"	2	25 ft.	10 lbs.
¾"	3	25 ft.	15 lbs.
7/8"	4	25 ft.	20 lbs.
1"	3	25 ft.	26½ lbs.

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GARLOCK 107

Construction—Garlock 107 is a diagonal packing having a cushion of twisted, long fibre asbestos yarn combined with diagonal wedges of special quality duck and rubber. These parts are held in place with a braided cotton cover. The packing is given a special lubrication treatment. For protection in handling and shipping, Garlock 107 is provided with a muslin cover. This should be removed before the packing is used.

Service—Recommended for service against high-pressure steam. It is particularly effective on equipment having rods slightly worn or out of alignment.

Form—Garlock 107 has straight sides and bottom and a rounding top, the thickness being approximately double the packing space. It is furnished in coil form in sizes ¼″ to 1½″, or in cut rings.

Listed below are footage and approximate weight of some standard sizes:

GARLOCK 107 COIL

Size	Coils per Box	Feet per Box	Weight per Box
¼″	5	105 ft.	10 lbs.
⅜″	3	63 ft.	10 lbs.
½″	3	40 ft.	10 lbs.
⅝″	2	25 ft.	10 lbs.
¾″	3	25 ft.	14½ lbs.
⅞″	4	25 ft.	22¼ lbs.
1″	3	25 ft.	29¾ lbs.



GARLOCK 80 COIL (*Oval*)
GARLOCK 81 COIL (*Round*)

Construction—Majestic Gum Core Packing consists of a core of high-grade rubber encased in a woven cover of specially processed and lubricated flax.

Service—Majestic Gum Core Packing is recommended for service on pumps working against low-pressure steam and cold water.

Form—Garlock 80 Coil, oval in cross section, is regularly furnished in sizes ¼″ to 1¼″.

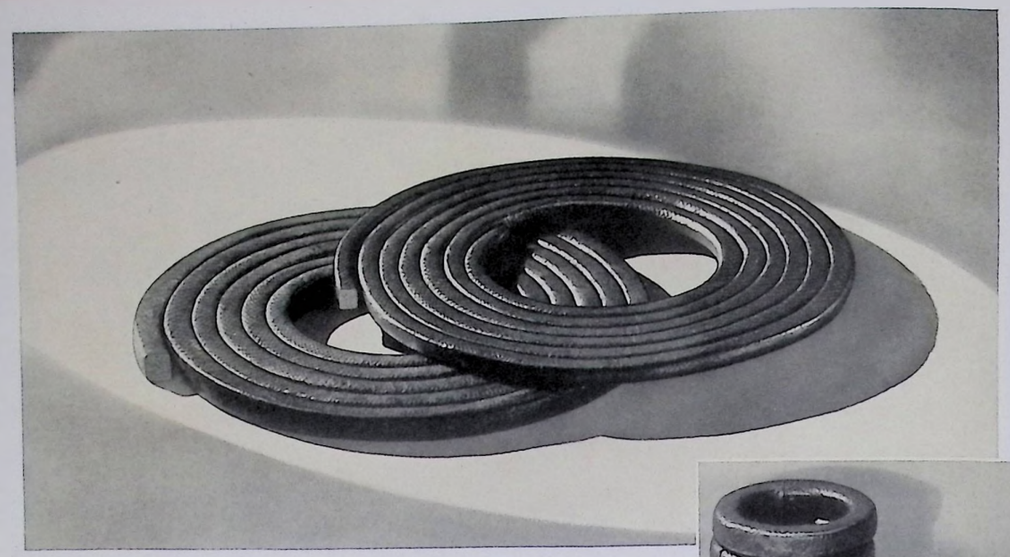
Garlock 81 Coil, round in cross section, is regularly furnished in sizes ¼″ to 1″. Either style is obtainable in ring form.

The table below shows footage and approximate weight of some standard sizes of both styles. Approximate thickness of Garlock 80 (oval) is also indicated:

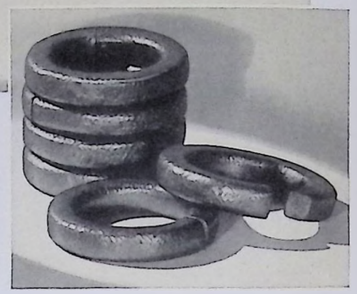
GARLOCK 80 Coil				GARLOCK 81 Coil		
Size	Thickness	Feet per Box	Weight per Box	Size	Feet per Box	Weight per Box
¼″	13/64″	232 ft.	10 lbs.	¼″	355 ft.	10 lbs.
⅜″	1/2″	106 ft.	10 lbs.	⅜″	166 ft.	10 lbs.
½″	5/8″	53 ft.	10 lbs.	½″	99 ft.	10 lbs.
⅝″	3/4″	40 ft.	10 lbs.	⅝″	59 ft.	10 lbs.
¾″	7/8″	27 ft.	10 lbs.	¾″	44 ft.	10 lbs.
⅞″	1″	23 ft.	10 lbs.	⅞″	30 ft.	10 lbs.
1″	1¼″	16 ft.	10 lbs.	1″	24 ft.	10 lbs.

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FLEXOMET PACKING



GARLOCK 981 COIL



GARLOCK
991 RINGS

Construction—GARLOCK Flexomet Packing is manufactured of soft metal strands twisted to size and covered with a thin braided, fibrous cover. This braided jacket serves to keep the packing in proper condition during shipment, handling and installation. It wears away immediately on application leaving the metal bearing on the rod.

Service—Recommended for service against steam, water, and many acid and chemical solutions on rotary rods and plungers of outside packed pumps.

Form—This material is supplied in two forms—GARLOCK 981 Coil and GARLOCK 991 Ring.

GARLOCK 991 Rings are cut from GARLOCK 981 Coil, and are furnished to fit any rod and stuffing box dimensions.

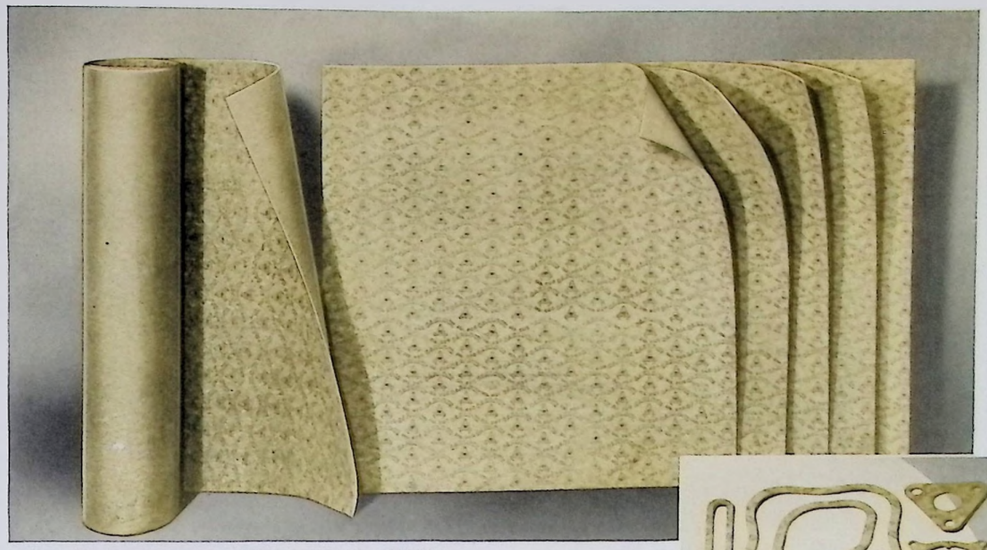
GARLOCK 981 Coil is manufactured in all packing sizes from 1/8" to 1", advancing by sixteenths.

The following table lists footage and approximate weight of some standard sizes of GARLOCK 981 Coil:

GARLOCK 981

Size	Coils per Box	Feet per Coil	Weight per Box
1/8"	1 (on spool)	30 ft.	1 1/2 lbs.
1/4"	2	15 ft.	3 7/8 lbs.
3/8"	2	15 ft.	10 lbs.
1/2"	2	15 ft.	16 3/4 lbs.
5/8"	1	15 ft.	13 5/8 lbs.
3/4"	1	15 ft.	17 3/4 lbs.
7/8"	1	10 ft.	21 13/16 lbs.

COMPRESSED ASBESTOS FIBRE SHEET



GARLOCK 900 SHEET
GARLOCK 901 SHEET (*Graphited*)



GARLOCK
950 GASKETS
GARLOCK
951 GASKETS
(*Graphited*)

Construction—GARLOCK 900 Compressed Asbestos Fibre Sheet Packing is made of Canadian asbestos fibre, scientifically blended with superheat resisting compounds. It is bonded under tremendous pressure, resulting in a pliable sheet with high tensile strength.

Service—Recommended for use against superheated or saturated steam, air, gas, ammonia and most chemical solutions.

Form—GARLOCK Compressed Asbestos Fibre Packing is furnished in two forms—GARLOCK 900 Sheet and GARLOCK 950 Gaskets.

GARLOCK 950 Gaskets are cut from GARLOCK 900 Sheet Packing. In addition to the usual round and oval shapes, they can be supplied in any odd or special shape desired. This material can be furnished with a graphite finish—styled GARLOCK 901 Sheet and GARLOCK 951 Gaskets.

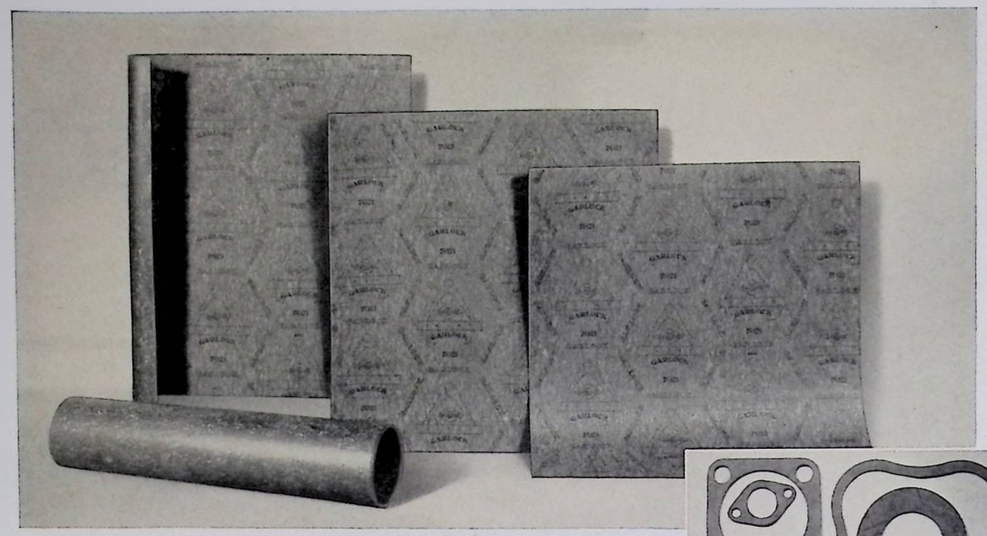
Listed below are standard thicknesses and sheet sizes applying to GARLOCK 900 and GARLOCK 901 Sheet:

GARLOCK 900 SHEET
GARLOCK 901 SHEET (*Graphited*)

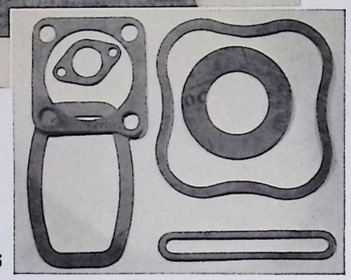
Standard Thicknesses		Standard Sheet Sizes	
1/64"	1/8"	40" x 40"	60" x 80"
1/32"	3/16"	40" x 60"	60" x 120"
1/16"	1/4"	40" x 80"	80" x 80"
3/32"		40" x 120"	80" x 120"
1/8"		60" x 60"	120" x 120"

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COMPRESSED ASBESTOS FIBRE SHEET



GARLOCK 7021 SHEET



GARLOCK
7022 GASKETS

Construction—GARLOCK 7021 Sheet Packing is made of Canadian asbestos fibre, scientifically blended with heat- and oil-resisting compounds and bonded into sheet under tremendous pressure.

Service—Recommended for use against all oil and steam conditions, particularly light oil at high temperatures, as on cracking stills and other oil and gasoline refinery equipment.

Form—This compressed asbestos fibre packing is furnished in two forms—GARLOCK 7021 Sheet and GARLOCK 7022 Gaskets.

GARLOCK 7022 Gaskets are cut from GARLOCK 7021 Sheet. In addition to the usual round and oval shapes, they can be supplied in any odd or special shape desired.

GARLOCK 7021 Sheet is furnished in the thicknesses and sheet sizes specified below:

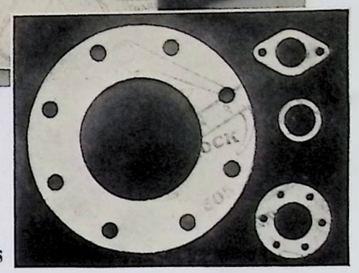
GARLOCK 7021 SHEET

Standard Thicknesses		Standard Sheet Sizes	
1/64″	1/8″	40″ x 40″	60″ x 80″
1/32″	3/16″	40″ x 60″	60″ x 120″
1/16″	1/4″	40″ x 80″	80″ x 80″
3/32″		40″ x 120″	80″ x 120″
		60″ x 60″	120″ x 120″

WIRE INSERTION ASBESTOS SHEET



GARLOCK 605 SHEET



GARLOCK
607 GASKETS

Construction—GARLOCK High-Pressure Wire Insertion Asbestos Packing is produced from specially treated, heat-resisting asbestos cloth, woven from fine wire inserted, long fibre asbestos yarn.

Service—Recommended as a flange or cylinder head gasket in contact with high-pressure steam. Particularly suited, due to its woven construction, for service on narrow flanges and cylinder heads having many ports and bolt holes for which an ordinary gasket is not suitable.

Form—GARLOCK 605 Sheet is regularly supplied in thicknesses of 1/32″, 1/16″ and 1/8″; standard width, 48″.

GARLOCK 607 Gaskets are cut from GARLOCK 605 Sheet Packing. In addition to the usual round and oval shapes, they can be supplied in any odd or special shape desired.

Approximate length and weight of rolls of GARLOCK 605 Sheet in standard thicknesses are listed below:

GARLOCK 605 SHEET

Thickness	Plies	Length per Roll	Weight per Roll	Width
1/32″	1	20 yds.	100 lbs.	48″
1/16″	1	30 yds.	200 lbs.	48″
1/8″	2	15 yds.	200 lbs.	48″

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OIL RESISTING COMPRESSED ASBESTOS FIBRE SHEET PACKING

GARLOCK 902 SHEET
GARLOCK 952 GASKET

Construction—GARLOCK 902 Sheet Packing is made of Canadian asbestos fibre, scientifically blended with superheat resisting compounds and bonded into sheet under tremendous pressure, and specially processed.

Service—Recommended for service against steam and oil; also methyl chloride, SO_2, and other refrigerants.

Form—This compressed asbestos fibre packing is furnished in two forms—GARLOCK 902 Sheet and GARLOCK 952 Gaskets. Either sheet or gaskets can be furnished with a graphite finish when specified. In addition to the usual round and oval shapes, gaskets can be supplied in any odd or special shape desired.

Standard thicknesses and standard sheet sizes of GARLOCK 902 are shown below:

GARLOCK 902 SHEET

Standard Thicknesses		Standard Sheet Sizes	
1/64″ 1/32″ 1/16″ 1/8″ 3/32″	1/16″ 3/32″ 5/32″ 1/4″	40″ x 40″ 40″ x 60″ 40″ x 80″ 40″ x 120″ 60″ x 60″	60″ x 80″ 60″ x 120″

AUTOLINE SHEET PACKING

GARLOCK 625 SHEET
GARLOCK 627 GASKET

Construction—GARLOCK Autoline Sheet Packing is a woven, high-pressure, wire inserted asbestos sheet packing treated with a red compound on one side and black on the other.

Service—Recommended for use on internal combustion engines.

Form—GARLOCK 625 Sheet is regularly supplied in thicknesses of 1/32″, 1/16″ and 1/8″; standard width, 48″.

GARLOCK 627 Gaskets are cut from GARLOCK 625 Sheet Packing. In addition to the usual round and oval shapes, they can be supplied in any odd or special shape desired.

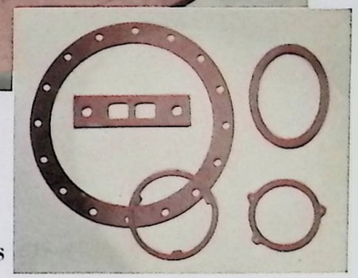
Approximate length and weight of rolls of GARLOCK 625 Sheet in standard thicknesses are listed below:

GARLOCK 625 SHEET

Thickness	Plies	Length per Roll	Weight per Roll	Width
1/32″	1	20 yds.	100 lbs.	48″
1/16″	1	30 yds.	200 lbs.	48″
1/8″	2	15 yds.	200 lbs.	48″



GARLOCK 22 SHEET



GARLOCK
122 GASKETS

Construction—GARLOCK 22 is a high-grade, red rubber sheet, scientifically compounded from the best materials.

Service—GARLOCK Red Sheet Packing gives universal satisfaction in any service on which a high-quality rubber gasketing material is required. It is particularly recommended for use on hot or cold water and saturated steam joints at pressures up to 150 lbs. per square inch.

Form—GARLOCK 22 Sheet is regularly supplied in thicknesses from 1/32″ up to, and including, 1/4″; standard width, 40″.

GARLOCK 122 Gaskets are cut from GARLOCK 22 Sheet Packing. In addition to the usual round and oval shapes, they can be supplied in any odd or special shape desired.

Approximate length and weight of rolls of GARLOCK 22 Sheet in various thicknesses are listed below:

GARLOCK 22 SHEET

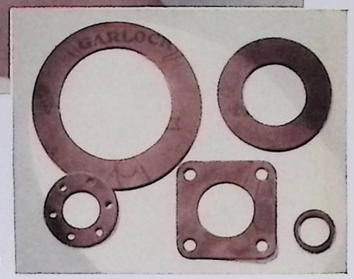
Thickness	Length per Roll	Weight per Roll	Width
1/32″	32 yds.	100 lbs.	40″
1/16″	32 yds.	200 lbs.	40″
3/32″	22 yds.	200 lbs.	40″
1/8″	16 yds.	200 lbs.	40″
5/32″	11 yds.	200 lbs.	40″
1/4″	8 yds.	200 lbs.	40″

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WIRE INSERTION RED SHEET PACKING



GARLOCK 24 SHEET



GARLOCK
124 GASKETS

Construction—GARLOCK 24 is made from the same high-grade, red rubber compound used in the manufacture of GARLOCK 22 Red Sheet, reinforced with woven wire. This wire is made to our specifications and is specially treated to eliminate oxidation, usually present in untreated brass, iron or copper wire.

Service—GARLOCK 24 Wire Insertion Red Sheet is recommended for service on hot or cold water or saturated steam lines. It is particularly useful where gaskets with narrow flanges are required or on pipe lines having considerable vibration.

Form—GARLOCK 24 Sheet is obtainable in any thickness from 1/32" to 1/8". Standard width of sheet, 40".

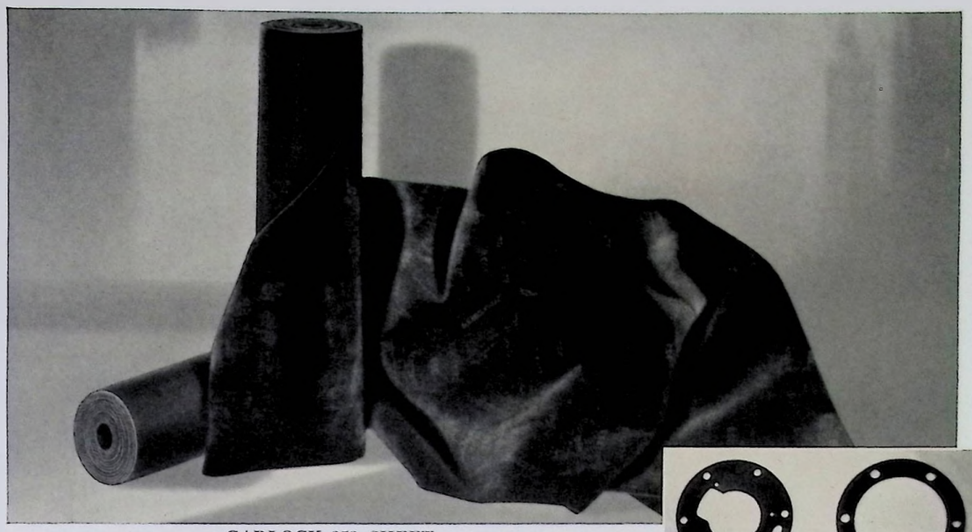
GARLOCK 124 Gaskets are cut from GARLOCK 24 Sheet Packing. In addition to the usual round or oval shapes, they are supplied in any odd or special shapes desired.

Approximate length and weight of rolls of GARLOCK 24 Sheet in the various stock thicknesses are listed below:

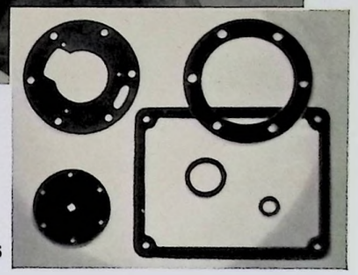
GARLOCK 24 SHEET

Thickness	Length per Roll	Weight per Roll	Width
1/32"	10 yds.	50 lbs.	40"
1/16"	30 yds.	200 lbs.	40"
3/32"	18 yds.	200 lbs.	40"
1/8"	15 yds.	200 lbs.	40"

OILBLACK RUBBER SHEET PACKING



GARLOCK 353 SHEET



GARLOCK
953 GASKETS

Construction—GARLOCK 353 is a high-grade, black rubber sheet, scientifically compounded to resist the deteriorating action of oils.

Service—Recommended for service against heavy or light oil, hot or cold water, steam, ammonia or alkali solutions.

Form—GARLOCK 353 Sheet is regularly supplied in thicknesses from 1/32" up to, and including, 1/4"; standard width, 40"

GARLOCK 953 Gaskets are cut from GARLOCK 353 Sheet Packing. In addition to the usual round and oval shapes, they can be supplied in any odd or special shape desired.

Approximate length and weight of rolls of GARLOCK 353 Sheet in various thicknesses are listed below:

GARLOCK 353 SHEET

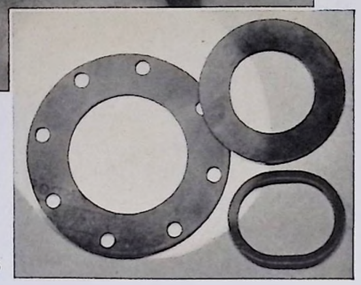
Thickness	Length per Roll	Weight per Roll	Width
1/32"	40 yds.	100 lbs.	40"
1/16"	40 yds.	200 lbs.	40"
3/32"	30 yds.	200 lbs.	40"
1/8"	20 yds.	200 lbs.	40"
3/16"	13 yds.	200 lbs.	40"
1/4"	10 yds.	200 lbs.	40"

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DUCK INSERTION SHEET PACKING



GARLOCK 19 SHEET



GARLOCK
219 GASKETS

Construction—GARLOCK 19 is manufactured from heavy-weight, high tensile duck, with covers of strong, high-grade rubber. Outstanding characteristics of this sheet are long life and lasting resiliency, either in service or in stock.

Service—Particularly recommended as a gasket material for heavy hydraulic work, as it will not creep in the flanges. Also very often used as door stripping on street cars and as apron cloths in paper mills.

Form—This material is obtainable in the two forms illustrated above—GARLOCK 19 Sheet and GARLOCK 219 Gaskets.

GARLOCK 19 Sheet is regularly furnished in thicknesses from 1/32" up to, and including, 1/4"; standard width, 40".

GARLOCK 219 Gaskets are cut from GARLOCK 19 Sheet, either in round or oval shapes or in special odd shapes to meet particular requirements.

Standard ply construction, and approximate length and weight of rolls of GARLOCK 19 Sheet are shown below:

GARLOCK 19 SHEET

Thickness	Number of Plies	Length per Roll	Weight per Roll	Width
1/32"	1	34 yds.	100 lbs.	40"
1/16"	1	34 yds.	200 lbs.	40"
3/32"	1	22 yds.	200 lbs.	40"
1/8"	2	17 yds.	200 lbs.	40"
3/16"	3	10 yds.	200 lbs.	40"
1/4"	4	8 yds.	200 lbs.	40"

GARLOCK 91 SHEET

Construction—GARLOCK 91 is a soft, gray rubber sheet packing containing a high percentage of rubber. It is a high-grade product, extremely tough and having lasting resiliency.

Service—This material is recommended for application to any joint against cold water or other cold fluids. It is extensively used between glass flanges, on peep sights in tanks, and in similar service.

Form—GARLOCK 91 is supplied in thicknesses from 1/32" up to, and including, 1/4"; standard width, 40". GARLOCK 96 Gaskets are cut from this sheet and can be supplied in any shape.

GARLOCK 159 C. I. SHEET

Construction—GARLOCK159 is a rubber sheet packing containing one or more insertions of cotton cloth. The number of plies of cloth is dependent upon the thickness of the sheet.

Service—GARLOCK 159 is recommended for application to joints operating against cold water.

Form—This sheet is furnished 40" wide, in thicknesses from 1/32" to 1/4" inclusive.

GARLOCK 169 C. O. S. SHEET

Construction—GARLOCK 169 is a gray rubber sheet packing with a cotton cloth surface on one side. The other side of the sheet is plain rubber. In thicknesses of 1/8" and greater, the sheet is made with one or more insertions of the same cloth.

Service—Recommended for use on joints against cold water.

Form—GARLOCK 169 is made in thicknesses from 1/32" to 1/4" inclusive; 40" wide.

GARLOCK 179 C. B. S. SHEET

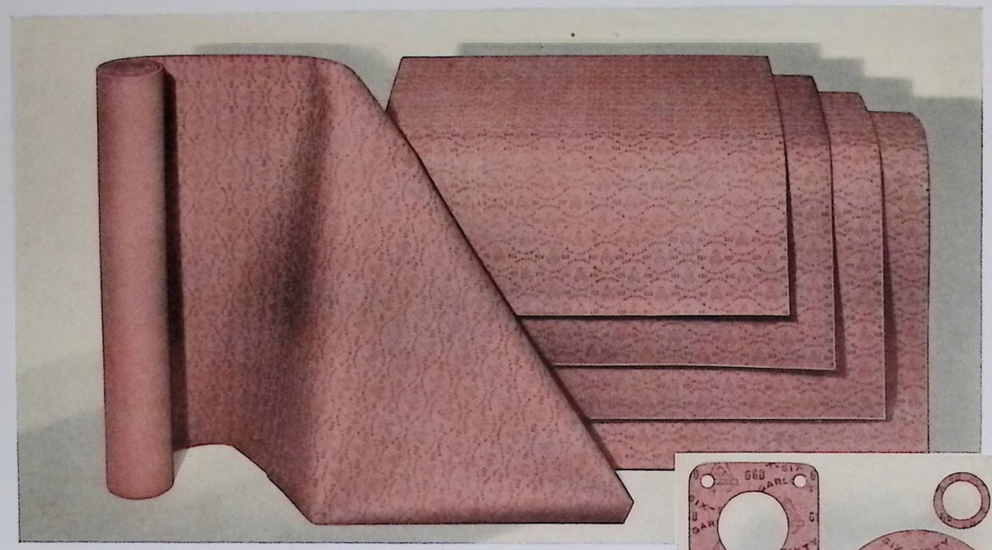
Construction—GARLOCK 179 is a rubber sheet packing with cotton cloth surface on both sides. One or more cloth insertions are also used in thicknesses of 1/8" and greater.

Service—GARLOCK 179 is recommended for use on cold water joints.

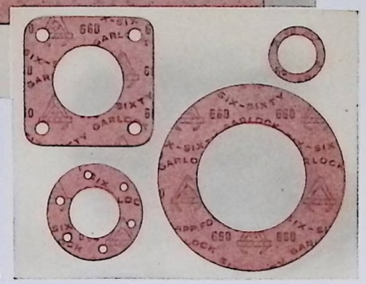
Form—Standard thicknesses from 1/16" to 1/4" inclusive. Standard width is 40".

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CORK-FIBRE SHEET PACKING



GARLOCK 660 SHEET
(Patented)



GARLOCK
661 GASKETS

Construction—GARLOCK 660 Sheet Packing is an entirely new product made by combining cork particles with paper-making fibre into compressed sheet form. The processes by which this material is made are protected by patents.

GARLOCK 660 Sheet Packing has much greater resiliency than the conventional treated paper sheet; it closely approaches cork in compressibility. The strength of GARLOCK 660 Sheet, however, is much greater than that of cork sheet, and is almost as great as the strength of treated paper.

Service—Recommended for service against gasoline, cold oil or cold water, or for any application on which either treated paper or cork usually is used.

Form—This material is furnished in two forms—GARLOCK 660 Sheet and GARLOCK 661 Gaskets.

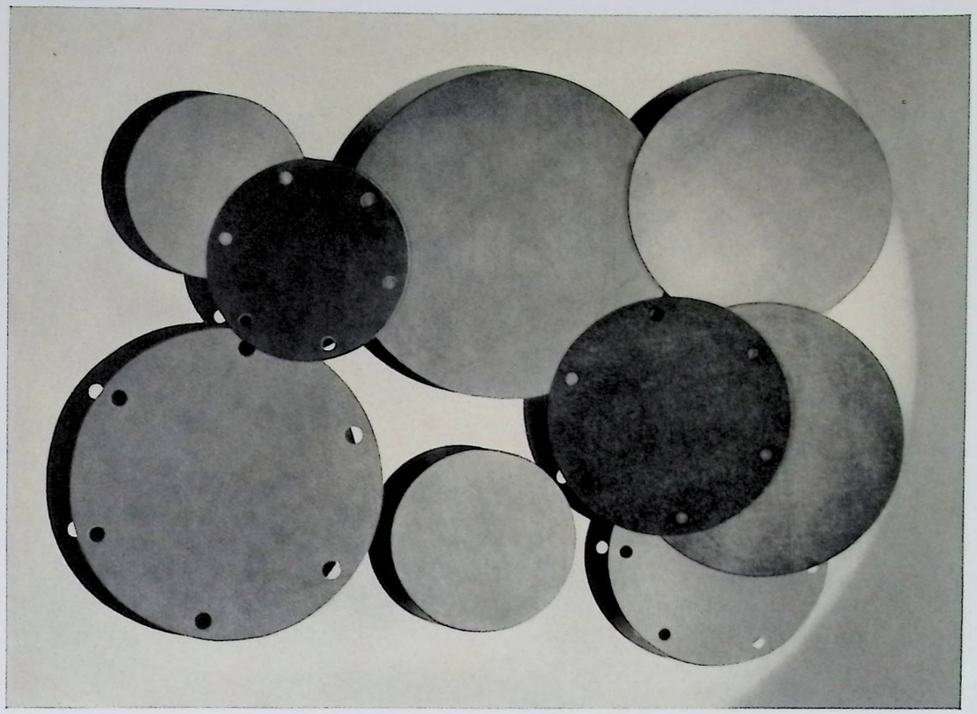
GARLOCK 661 Gaskets are cut from GARLOCK 660 Sheet. In addition to the usual round and oval shapes, they can be supplied in any odd or special shape desired.

GARLOCK 660 Sheet can be furnished in thicknesses from .010″ to ½″. Thicknesses up to ⅛″ can be supplied in roll lots, 36″ wide, as specified below. Thicknesses ⅛″ and over are furnished in 36″ square sheets.

Listed below are standard thicknesses up to ⅛″, together with roll lot quantities and approximate weights per square yard:

GARLOCK 660

Thickness	Maximum Roll Length	Weight per Square Yard	Thickness	Maximum Roll Length	Weight per Square Yard
.010″	100 yds.	.44 lbs.	.047″ (3/64″)	50 yds.	1.74 lbs.
.015″ (1/64″)	50 yds.	.62 lbs.	.062″ (1/16″)	25 yds.	2.06 lbs.
.021″	50 yds.	.82 lbs.	.095″ (3/32″)	25 yds.	3.24 lbs.
.032″ (1/32″)	50 yds.	1.18 lbs.	.125″ (1/8″)	36″ sq. sheets	4.12 lbs.



GARLOCK DIAPHRAGM SHEETS

A complete line of quality diaphragm stocks for a wide variety of service conditions and an extensive range of pressures is outlined in the following pages.

All weight and pressure data given have been predicated on a single-ply insertion and a single standard thickness. In most instances, thicker sheets with additional cloth plies can be furnished; also, in some cases, sheets thinner than standard are produced.

The bursting strength test indicated on each style was conducted across a 2″ circular opening and is intended only to show the comparative strength of the various stocks.

GARLOCK 7543 DIAPHRAGM SHEET

GARLOCK 7543 Diaphragm Sheet is constructed of a muslin insertion between covers of a very high-grade, pure rubber compound.

It is regularly furnished with one ply of cloth insertion in a standard thickness of 1/32″ and a standard width of 40″. The approximate weight per square yard in this thickness is 23 ounces; the bursting strength across a 2″ circular opening, approximately 70 pounds.

GARLOCK 7543 is recommended for low-pressure service against dry natural gas, air or water. It is particularly suitable where a very sensitive diaphragm is required.

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GARLOCK 7561 DIAPHRAGM SHEET

Garlock 7561 Diaphragm Sheet is constructed of a sheeting insertion between covers of a high-grade rubber compound.

It is regularly furnished with one ply of cloth insertion in a standard thickness of 1/32" and a standard width of 40". The approximate weight per square yard in this thickness is 30 ounces; the bursting strength across a 2" circular opening, approximately 70 pounds.

Garlock 7561 is recommended for low-pressure service against dry natural gas, air or water. It is less sensitive than Garlock 7543, but is somewhat stronger.

GARLOCK 7603 DIAPHRAGM SHEET

Garlock 7603 Diaphragm Sheet is constructed of a sheeting insertion between covers of a special Thiokol compound impervious to the action of cold oil.

It is regularly furnished with one ply of cloth insertion in a standard thickness of 1/32" and a standard width of 40". The approximate weight per square yard in this thickness is 37 ounces; the bursting strength across a 2" circular opening, approximately 70 pounds.

Garlock 7603 is recommended for low-pressure service against wet natural or manufactured gas, gasoline or oil at temperatures not exceeding 150° Fahrenheit.

GARLOCK 619 DIAPHRAGM SHEET

Garlock 619 Diaphragm Sheet is constructed of a duck insertion, between covers of a high-grade rubber compound.

It is regularly furnished with one ply of cloth insertion in a standard thickness of 1/8" and a standard width of 40". The approximate weight per square yard in this thickness is 137 ounces; the bursting strength across a 2" circular opening, approximately 130 pounds.

Garlock 619 is recommended for medium pressure service against dry natural gas, air or water.

GARLOCK 7715 DIAPHRAGM SHEET

Garlock 7715 Diaphragm Sheet is constructed of a ply of open weave duck, between covers of a very high-grade, pure rubber compound.

It is regularly furnished with one ply of cloth insertion in a standard thickness of 1/8" and a standard width of 40". The approximate weight per square yard in this thickness is 93 ounces; the bursting strength across a 2" circular opening, approximately 105 pounds.

Garlock 7715 is recommended for medium pressure service against dry natural gas, or water. It has extraordinary flexibility and is extremely sensitive to pressure changes.

GARLOCK 7598 DIAPHRAGM SHEET

Garlock 7598 Diaphragm Sheet is constructed of a high-quality duck insertion between covers of a special Thiokol compound impervious to the action of cold oil.

It is regularly furnished with one ply of cloth insertion in a standard thickness of 1/16" only and a standard width of 40". The approximate weight per square yard is 73 ounces; the bursting strength across a 2" circular opening, approximately 130 pounds.

Garlock 7598 is recommended for medium pressure service against wet natural or manufactured gas, gasoline or oil at temperatures not exceeding 150° Fahrenheit.

GARLOCK 7104 DIAPHRAGM SHEET

Garlock 7104 Diaphragm Sheet is constructed of a heavy duck insertion between covers of a high-grade rubber compound.

It is regularly furnished with one ply of cloth insertion in a standard thickness of 1/8" and a standard width of 40". The approximate weight per square yard in this thickness is 135 ounces; the bursting strength across a 2" circular opening, approximately 220 pounds.

Garlock 7104 is recommended for high-pressure service against dry natural gas, air or water.

GARLOCK 7548 DIAPHRAGM SHEET

Garlock 7548 Diaphragm Sheet is constructed of a heavy duck insertion between covers of oil-resistant rubber.

It is regularly furnished with one ply of cloth insertion in a standard thickness of 1/8" and a standard width of 40". The approximate weight per square yard in this thickness is 167 ounces; the bursting strength across a 2" circular opening, approximately 220 pounds.

Garlock 7548 is recommended for high-pressure service against air or ammonia vapor. It is effective on air compressor, refrigerating machine governors and similar services, where traces of oil are usually encountered.

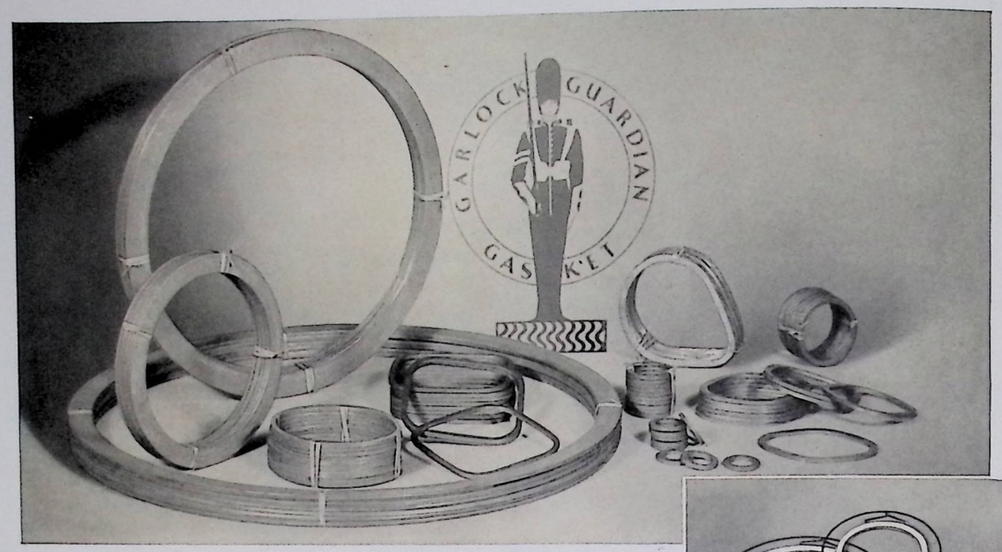
GARLOCK 7677 DIAPHRAGM SHEET

Garlock 7677 Diaphragm Sheet is constructed of an extra heavy duck insertion between covers of a high-grade rubber compound.

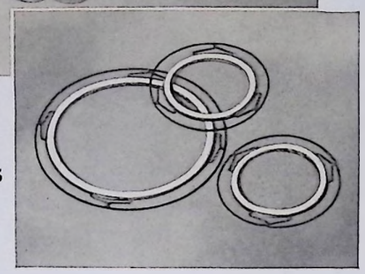
It is regularly furnished with one ply of cloth insertion in a standard thickness of 1/8" and a standard width of 40". The approximate weight per square yard in this thickness is 132 ounces; the bursting strength across a 2" circular opening, approximately 310 pounds.

Garlock 7677 is recommended for service at the highest pressures against dry natural gas, air or water.

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GARLOCK 555



GARLOCK 555 WITH CENTERING RING

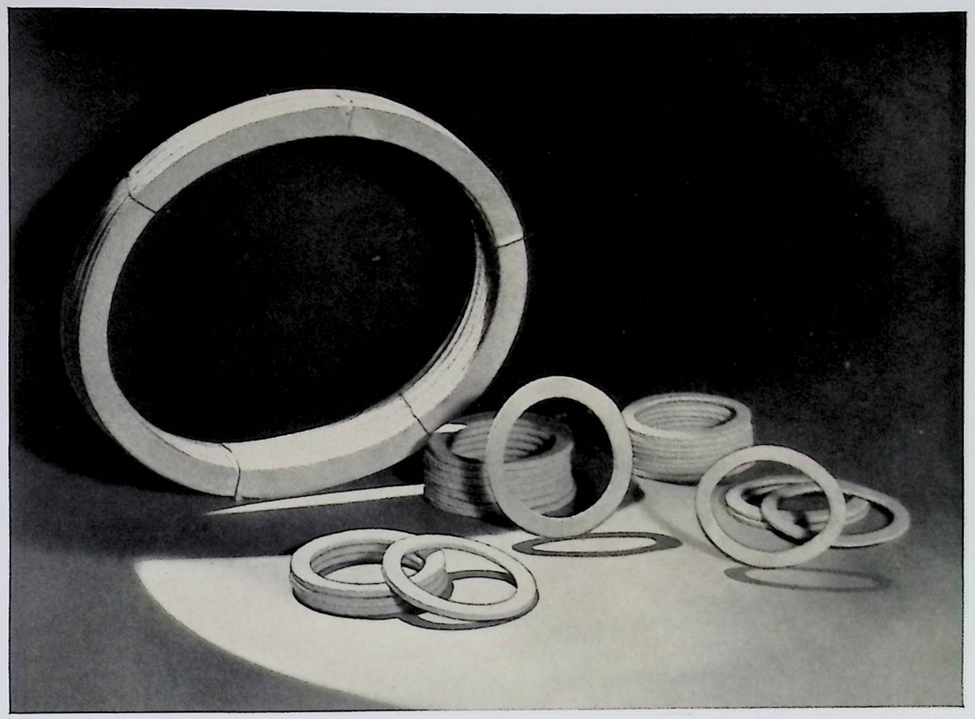
Construction—GARLOCK *555* Guardian Gaskets were designed and developed in the GARLOCK factories to meet the demand for a sturdy, dependable gasket for use on severe service conditions. They are constructed of electroplated, zinc-coated, rustproof metal strip and asbestos, wound in continuous alternating layers. The inner and outer edges of the gasket are reinforced with double thicknesses of metal. For added strength, the metal strip is electrically welded. Gaskets made of stainless steel will be supplied when specified.

The metal strip used in the construction of Guardian Gaskets is formed into a shape resembling the letter M with rounded angles. This structural design, which is found in no other gasket, produces a gasket having great resiliency and rebound.

Service—GARLOCK Guardian Gaskets are recommended for use against steam, gases or liquids at high pressures and elevated temperatures. Because of their exceptional resiliency, these gaskets are particularly suitable for service on pipe lines or on other equipment subject to vibration or to frequent and extreme temperature changes with the resultant expansion and contraction of the metal parts. The problem of maintaining tight joints under such conditions is simplified by the use of Guardian Gaskets.

Form—Guardian Gaskets are made in round, oval, square, diamond, pear and other shapes, without bolt holes. Standard thickness is 3/16".

For application to raised face pipe flanges Guardian Gaskets may be obtained with a wire centering ring which is of proper diameter to fit inside the bolt circle. This arrangement allows the usage of a gasket having an inside and outside diameter to correspond with the diameters of the raised face and permits easy and exact centering of the gasket in the joint. Gaskets with centering rings for application to plain face flanges have narrower rinds than otherwise would be practicable, but are fully as effective and less expensive than gaskets made with an outside diameter to fit in the bolt circle.



GARLOCK 604 GASKETS

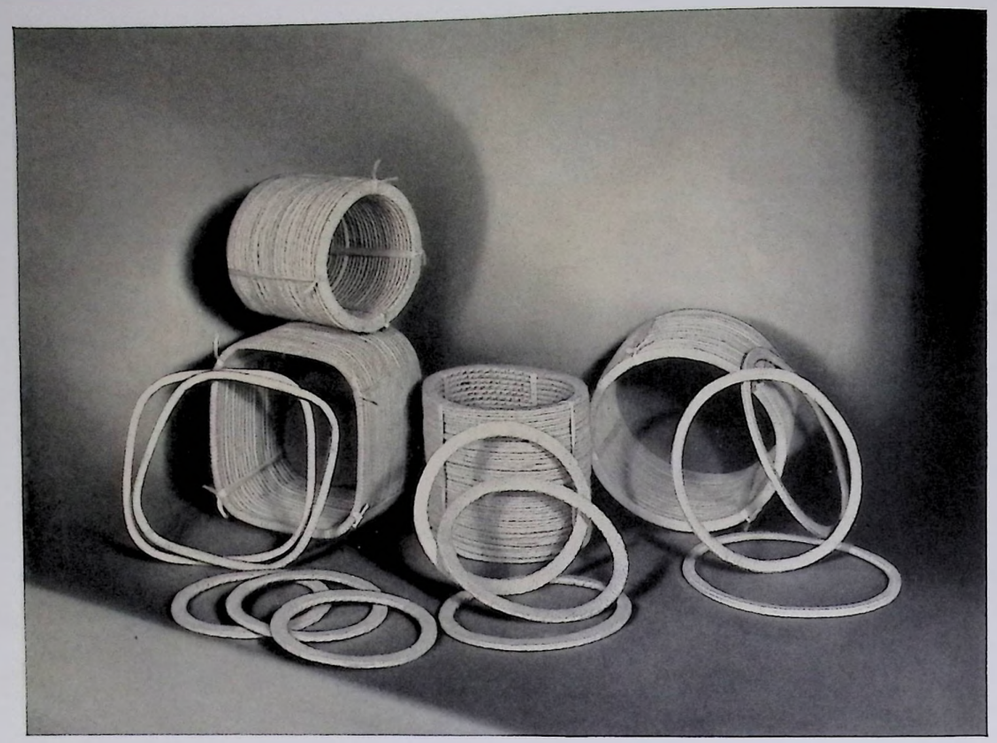
Construction—GARLOCK 604 Gaskets are manufactured of asbestos cloth woven from fine wire center, long fibre asbestos yarn. The cloth is treated with a heat-resisting compound; it is then folded and pressed to required shape and size.

Service—Recommended for handholes and manholes of boilers, or for other high-pressure steam service.

Form—GARLOCK 604 Gaskets are furnished in practically any size or shape desired.

When ordering gaskets, other than round or oval, a template, drawing or sample should be furnished and the required thickness designated.

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TUBE PLATE GASKETS

GARLOCK 601 ROUND (*Heine*)
GARLOCK 601 OVAL (*Heine*)
GARLOCK 602 OVAL (*B & W*)
GARLOCK 602 SQUARE (*B & W*)
GARLOCK 6007 OVAL (*Edgemoor*)

Construction—These gaskets are manufactured of GARLOCK asbestos cloth woven from fine wire center, long fibre asbestos yarn. The cloth is treated with a heat-resisting compound; it is then folded and pressed to required shape and size.

Service—GARLOCK 601 Round Gaskets are recommended for service on round tube plates of Heine Water Tube Boilers.

GARLOCK 601 Oval Gaskets are recommended for service on oval tube plates of Heine Water Tube Boilers.

GARLOCK 602 Oval Gaskets are recommended for service on oval tube plates of B & W Water Tube Boilers.

GARLOCK 602 Square Gaskets are recommended for service on square tube plates of B & W Water Tube Boilers.

GARLOCK 6007 Oval Gaskets are recommended for service on the tube plates of Edgemoor Water Tube Boilers.

Form—Standard sizes are as follows:

601 Round—3½ x 4¼ x 1/8 thick
601 Oval —3½ x 4⅝ x 3/8 x 1/8 thick
602 Oval —4⅜ x 5⅜ x 5/8 x 1/8 thick
602 Square—4¾ x 4⅞ x 1/4 x 1/8 thick
6007 Oval —4 1/16 x 5 1/16 x ½ x 4-ply thick



GARLOCK 612

ASBESTOS TAPE

GARLOCK 612

Construction—GARLOCK 612 Asbestos Tape is a folded tape manufactured of wire inserted asbestos cloth treated with a heat-resisting compound.

Service—Recommended for service against all steam pressures on cylinder heads, heater doors and other mechanical equipment where a heat-resisting asbestos tape is required.

Form—GARLOCK 612 is furnished in practically any width and thickness desired. There is no standard length of coil or regular box quantity. In ordering, length or amount of tape should be specified in addition to the width and thickness dimensions.

ASBESTOS TUBULAR GASKETING

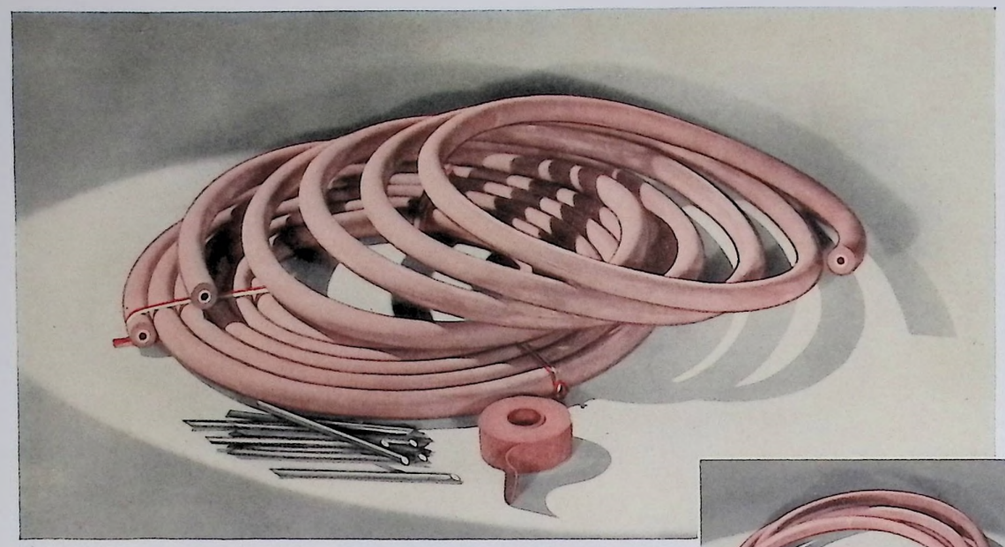
GARLOCK 610 GASKETING
GARLOCK 611 FORMED GASKETS

Construction—GARLOCK 610 is a high-pressure tubular gasketing material, constructed of GARLOCK wire inserted asbestos cloth frictioned with a heat-resisting compound and formed with a hollow center. With each box of GARLOCK 610, connecting leads and friction tape for use in forming gaskets are furnished.

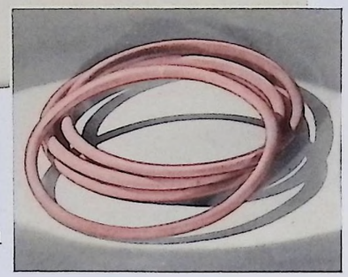
Service—GARLOCK 610 is recommended for high-pressure steam service on the handholes and manholes of boilers, heater doors and large tanks.

Form—GARLOCK 610 Gasketing is regularly furnished in 12½- and 25-foot coils; standard sizes 3/8" to 1", advancing by sixteenths. GARLOCK 611 Gaskets, which are formed from GARLOCK 610 material, are furnished in any specified size. These gaskets are not tubular.

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GARLOCK 500 GASKETING—METAL INSERTION



GARLOCK 501 GASKETS

Construction—GARLOCK 500 is a red rubber, tubular gasketing material with a soft metal tube insertion. With each box of GARLOCK 500, connecting leads and friction tape, for use in forming gaskets, are furnished.

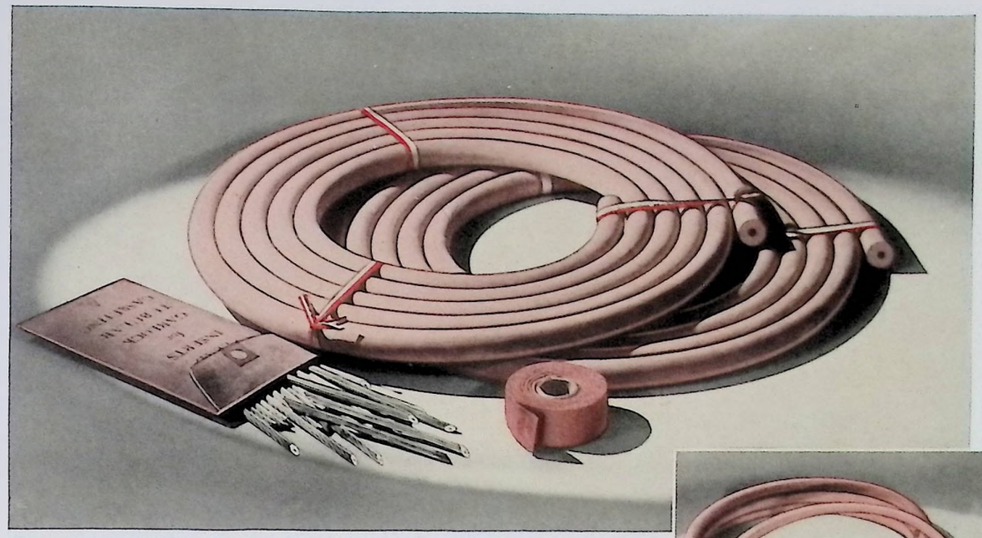
Service—GARLOCK 500 is recommended for service against steam pressures up to 150 lbs. per square inch. It is widely used as a gasketing on manholes and handholes of boilers, heater doors and large tanks.

Form—GARLOCK 500 is regularly furnished in 12½-foot coils; it can also be supplied in continuous lengths on reels. Standard sizes are from ⅜" to 1", advancing by sixteenths.

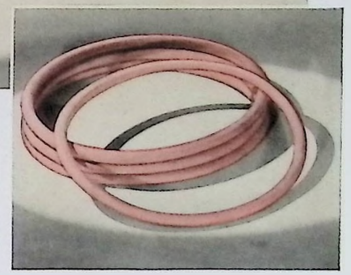
GARLOCK 501 Gaskets, which are formed from GARLOCK 500, are furnished in any specified size.

Listed below are approximate weights applying to 12½-foot coils of GARLOCK 500 in the stock sizes:

Size	Coils per Box	Connections per Box	Weight per Box
⅜"	3	30	5 lbs.
½"	2	20	5 9/16 lbs.
5/8"	2	15	10 15/16 lbs.
¾"	2	12	13 5/8 lbs.



GARLOCK 28 GASKETING



GARLOCK 281 GASKETS

Construction—GARLOCK 28 is a tubular gasketing material manufactured from a high-grade, resilient, red rubber compound. With each box of GARLOCK 28, connecting leads and friction tape, for use in forming gaskets, are furnished.

Service—GARLOCK 28 is recommended for service against hot and cold water, low-pressure steam and air. It is widely used as a gasketing on manholes and handholes of boilers, heater doors and large tanks.

Form—GARLOCK 28 Gasketing is regularly furnished in 12½-foot coils; it can also be supplied in continuous lengths on reels. Standard sizes, ⅜" to 1", advancing by sixteenths; sizes below ⅜" are obtainable in solid (nontubular) construction.

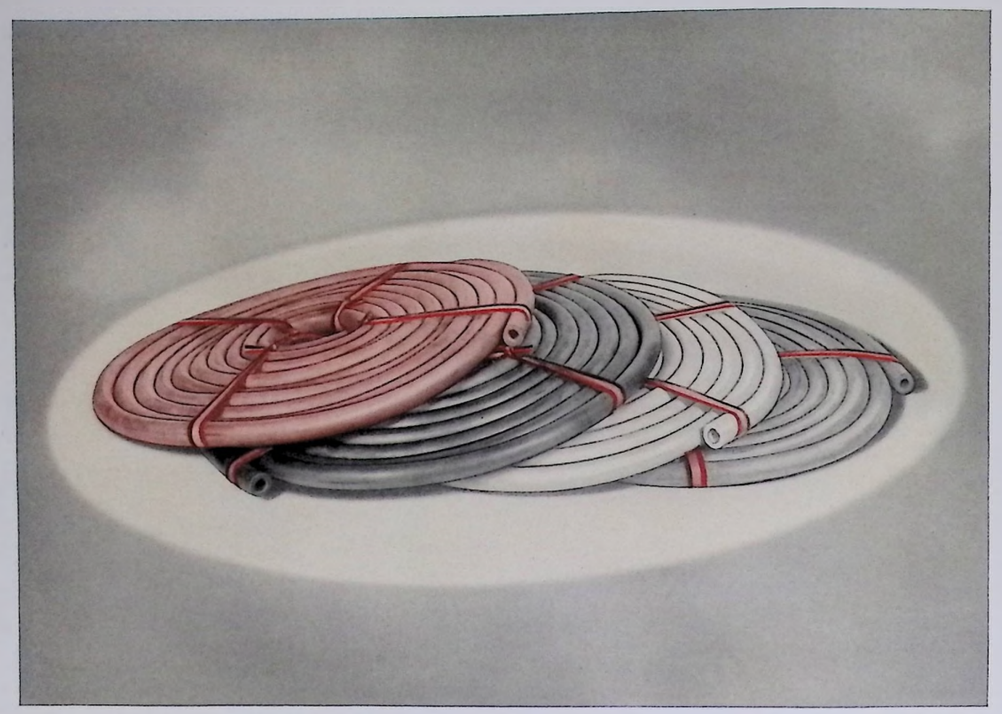
GARLOCK 281 Gaskets which are formed from GARLOCK 28 are furnished in any specified size.

Listed below are approximate weights applying to 12½-foot coils of GARLOCK 28 in the stock sizes:

Size	Coils per Box	Connections per Box	Weight per Box
⅜"	4	30	4 3/8 lbs.
½"	3	20	5 15/16 lbs.
5/8"	2	15	6 1/4 lbs.
¾"	2	12	8 7/8 lbs.

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RUBBER TUBINGS



Construction—GARLOCK Tubings are manufactured from high-grade rubber stocks specially compounded to insure long life and resiliency in service. The most popular tubings in the GARLOCK line are described below, together with the service for which each is recommended.

GARLOCK No. 1 Tubing is a high-grade, soft, black stock. It is an outstanding rubber tubing and gives exceptional service in ice plants and laboratories and on any other tubing application for which a superior product is desired.

GARLOCK No. 2 Tubing is an excellent, soft, white stock, particularly suitable for use in hospitals and for general service where white tubing is required.

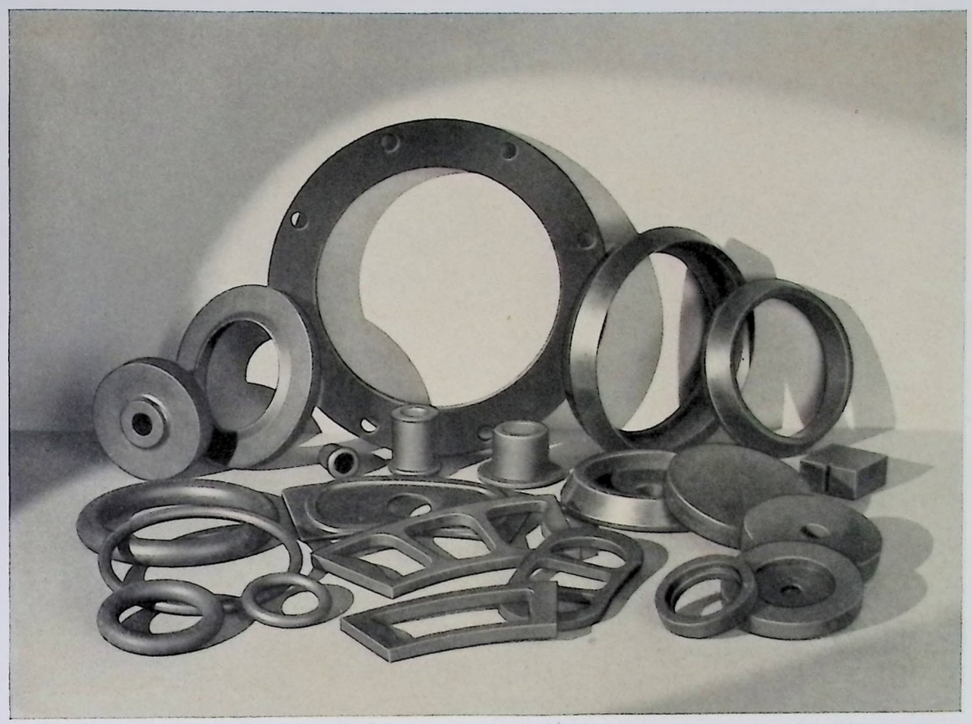
GARLOCK No. 3 Tubing is a semisoft, black tubing, made from a rubber compound with oil-resisting qualities. It is a desirable tubing for use in chemical or dye works and where resistance to oil is a factor.

GARLOCK No. 4 Tubing is a high-grade, soft, red stock which is recommended for use in laboratories, ice plants or on other service where a red tubing is desired.

GARLOCK No. 8 Tubing is a semihard stock made from neoprene which is a highly oil-resistant synthetic compound. It is recommended for use against oils and chemicals. For high-pressure service, GARLOCK No. 8 Tubing is manufactured with either a single or double jacket of braided copper wire.

Form—All GARLOCK Tubings are obtainable in an extensive range of sizes. Listed below are a few typical sizes with approximate weights per hundred feet.

I. D.	Wall Thickness	O. D.	Approximate Weight per C Feet				
			No. 1	No. 2	No. 3	No. 4	No. 8
1/8"	1/32"	3/16"	.74 lb.	1.14 lbs.	.82 lb.	.8 lb.	1. lb.
3/16"	3/64"	9/32"	1.67 lbs.	2.56 lbs.	1.83 lbs.	1.8 lbs.	2.22 lbs.
1/4"	1/16"	3/8"	2.98 lbs.	4.57 lbs.	3.26 lbs.	3.21 lbs.	3.96 lbs.
5/16"	3/32"	1/2"	5.80 lbs.	8.9 lbs.	6.36 lbs.	6.24 lbs.	7.71 lbs.
3/8"	1/8"	5/8"	9.50 lbs.	14.6 lbs.	10.45 lbs.	10.25 lbs.	12.66 lbs.
7/16"	5/32"	3/4"	14.1 lbs.	21.7 lbs.	15.5 lbs.	15.21 lbs.	18.79 lbs.
1/2"	1/4"	1"	28.5 lbs.	43.9 lbs.	31.4 lbs.	30.75 lbs.	38. lbs.



MOLDED RUBBER GOODS

A comprehensive line of GARLOCK rubber compounds has been developed for use in the production of rubber sheet, slab, gaskets, rings, pump valves and special molded shapes.

Outstanding in this line are numerous carbon black compounds which are exceptionally tough, light in weight and have excellent aging qualities. Such compounds are used extensively in pump valve service where a tough valve for heavy duty is required. A few of the most popular carbon black stocks are described below:

GARLOCK 7593

GARLOCK 7593 is a very hard compound suitable for pump valves operating in warm or cold water service at pressures up to 300 pounds per square inch.

GARLOCK 7862

GARLOCK 7862 is a medium hard compound. Pump valves made from this stock are recommended for service against cold water at pressures from 75 to 125 pounds per square inch.

GARLOCK 7790

GARLOCK 7790 is a medium soft compound which makes excellent pump valves for cold water service at pressures from 50 to 75 pounds per square inch.

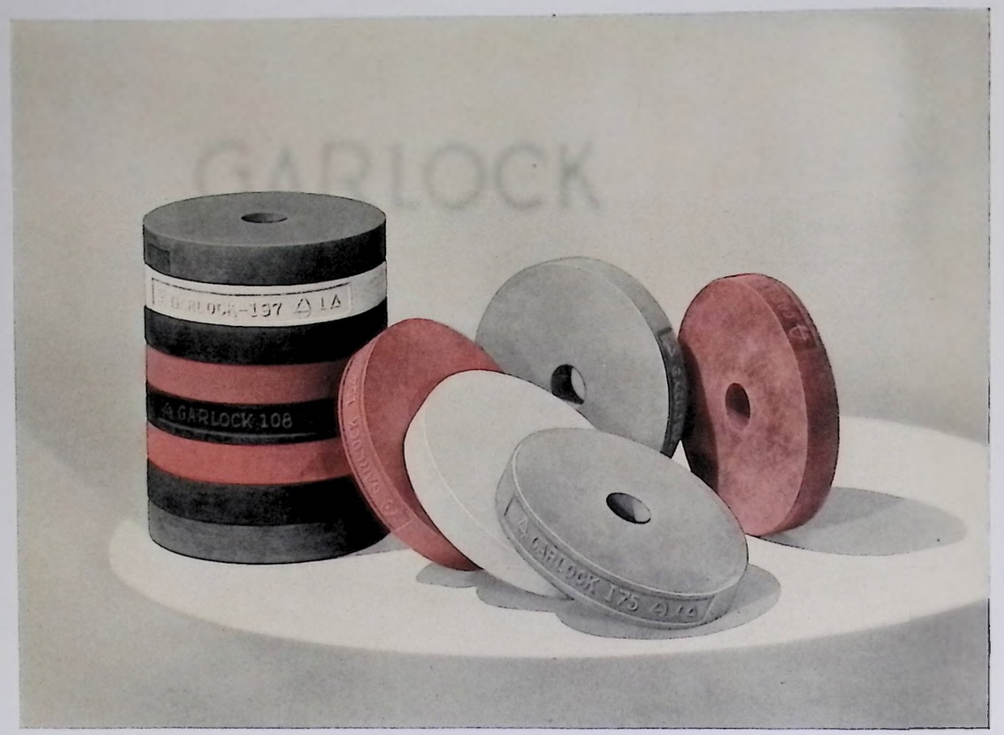
GARLOCK 7505

GARLOCK 7505 is slightly softer than GARLOCK 7790 and also makes a serviceable pump valve for use against cold water at 50 to 75 pounds pressure per square inch.

GARLOCK 7224

GARLOCK 7224 is a very soft compound suitable for air and marine condenser service.

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GARLOCK PUMP VALVES

The standard line of GARLOCK rubber and composition pump valves is shown on the following page. Other rubber compounds, specially suited for pump valve service, are described on the preceding page. Together these comprise a complete range of rubber compounds from which may be selected a pump valve suitable for practically any service.

Conditions most commonly encountered are:

Cold Water	Acids
Warm Water	Alkalies
Hot Water	Fruit Juices
Gritty or Muddy Water	Cane Juices
Hot or Cold Oils	Air (Vacuum Pump)

Higher pressures and temperatures generally require the use of hard valves. For lower temperatures and pressures, softer valves are usually more suitable. The proper hardness or density of the valve, however, is also dependent to some extent upon the diameter and thickness of the valve and upon the chemical properties of the liquids to be pumped. It should be understood, therefore, that the recommendations appearing on the following pages are general in character; they do not apply to unusual or extreme conditions.

A survey of your equipment and operating conditions by a GARLOCK Representative will insure the specification of the proper GARLOCK Pump Valve for your service. When inconvenient to have that survey made, full and complete answers to the following questions will provide the necessary information for determining the correct valve for your requirements:

1. Diameter of valve?
2. Size of hole?
3. Thickness of valve?
4. Exact nature of the liquid?
5. Temperature of the liquid?
6. Pressure against the valve?
7. Is it a straight or a curved guard pump?

HARD VALVES

GARLOCK 108

GARLOCK 108 is a very hard, black rubber valve, recommended for service on hot water, hot oils, gasoline, syrups, alkali, lye and other solutions at temperatures up to 212° and at any pressure. GARLOCK 108 has proven in years of successful service its suitability for the high temperatures, and heavy duty work for which it is recommended.

GARLOCK 155 AMBERITE

GARLOCK 155 is a very hard, Bakelite valve, particularly recommended for hot or cold oil service. It will operate satisfactorily against high temperatures and pressures.

GARLOCK 156 GRAYBLACK

GARLOCK 156 is a very hard, asbestos composition pump valve, particularly recommended for hot or cold oil service. It will operate satisfactorily against high temperatures and pressures.

GARLOCK 188 VALVES

GARLOCK 188 is a hard, black valve, recommended for warm or cold water service at pressures from 125 pounds to 300 pounds per square inch. It is particularly recommended for the heavy duty service usually encountered on mine pumps and similar equipment.

MEDIUM VALVES

GARLOCK 182

GARLOCK 182 is a medium hard, gray rubber valve, developed for cold water service at pressures from 75 pounds to 125 pounds per square inch. This valve is highly recommended for heavy duty cold water service usually found on city pumping station installations and hydrant valves.

GARLOCK 359

GARLOCK 359 is a medium hard, black valve, recommended for cold water or cold oil service at pressures from 75 pounds to 125 pounds per square inch. Because of its toughness, GARLOCK 359 is particularly serviceable when used in contact with water containing sand or grit.

GARLOCK 139

GARLOCK 139 is a medium soft, gray valve, recommended for cold water service at pressures from 50 to 75 pounds.

GARLOCK 175

GARLOCK 175 is a medium soft, gray valve, recommended for cold water service at pressures from 50 to 75 pounds.

GARLOCK 189

GARLOCK 189 is a medium soft, white valve, recommended for cold water service at pressures from 50 to 75 pounds.

SOFT VALVES

GARLOCK 154

GARLOCK 154 is a very soft, red rubber valve, recommended for marine condenser and air service. It is particularly recommended for lake and ocean condenser service.

GARLOCK 151

GARLOCK 151 is a very soft, gray valve, recommended for air and marine condenser service.

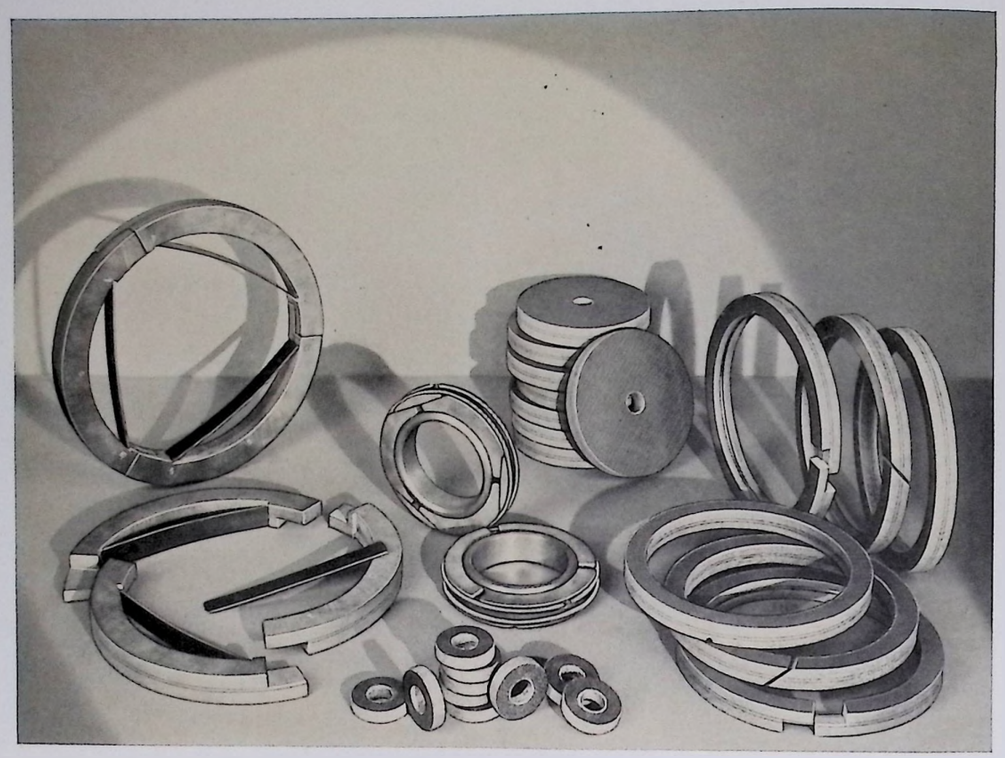
GARLOCK 152

GARLOCK 152 is a very soft, red valve, recommended for air and marine condenser service.

GARLOCK 197

GARLOCK 197 is a very soft, white valve, recommended for air and marine condenser service.

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Construction—Garlock Amberite is a laminated, phenolic material, commonly called bakelite, having unusual strength and toughness. It is highly resistant to the corrosive effects of water, mild acids and caustics, oil and oil derivatives; it will not harden, soften or swell in service; it is resilient; and it operates with a low coefficient of friction when used as a rod or cylinder packing.

Types—In the complete line of Amberite products three types of material are employed, as follows:

1. Garlock 155 Standard Amberite, which has a cotton duck fabric base; suitable for service where operating temperature does not exceed 250° F.
2. Garlock 113 Amberite, which has inner plies of wire-inserted asbestos cloth and outside covers of plain asbestos cloth; suitable for service where extremely high temperatures prevail.
3. Garlock 155 Graphitized Amberite, which has a cotton duck fabric base and is impregnated with graphite; suitable for service at temperatures below 250° F. where minimum friction is required.

On the following page is indicated the type of material recommended for each of the several products manufactured from Garlock Amberite.

GARLOCK 155 SEGMENTAL ROD PACKING RINGS

Amberite segmental rod packing rings are assembled in sections, each consisting of one triangular and one radial cut ring. A complete set usually consists of three or more sections each placed in a separate cup or groove in a metal case. Regularly furnished from Garlock 155 Standard Amberite but available in graphitized material when so specified.

Recommended for compressor rods on applications where metal packings commonly are used.

GARLOCK 155 SEGMENTAL PISTON RINGS

Amberite segmental piston rings usually are made in three pieces or segments with step joints, each segment equipped with a flat spring, the ends of which fit into notches in the inside face of the segment. This spring arrangement effectively forces each segment into close contact with the cylinder wall.

Garlock 155 segmental piston rings are recommended for use in the compression cylinders of gas compressors.

GARLOCK 155 AMBERITE PUMP VALVES

Garlock 155 Amberite pump valves are described on page 121. Although not regularly furnished, pump valves made from Garlock 113 wire-inserted asbestos Amberite will be supplied when specified.

GARLOCK 113 AMBERITE VALVE DISCS

Garlock 113 Amberite valve discs are recommended for use on globe and angle valves of standard disc type in service against the highest pressures and temperatures and may be used on many applications where ordinary valve discs are not satisfactory. They are not recommended for valves in cold service.

These discs are made with round holes only. When required for oval disc holders discs are furnished with round holes sufficiently large to fit the oval holder.

When specified, valve discs will be supplied from Garlock 155 Standard Amberite.

GARLOCK 155 AMBERITE PUMP RINGS

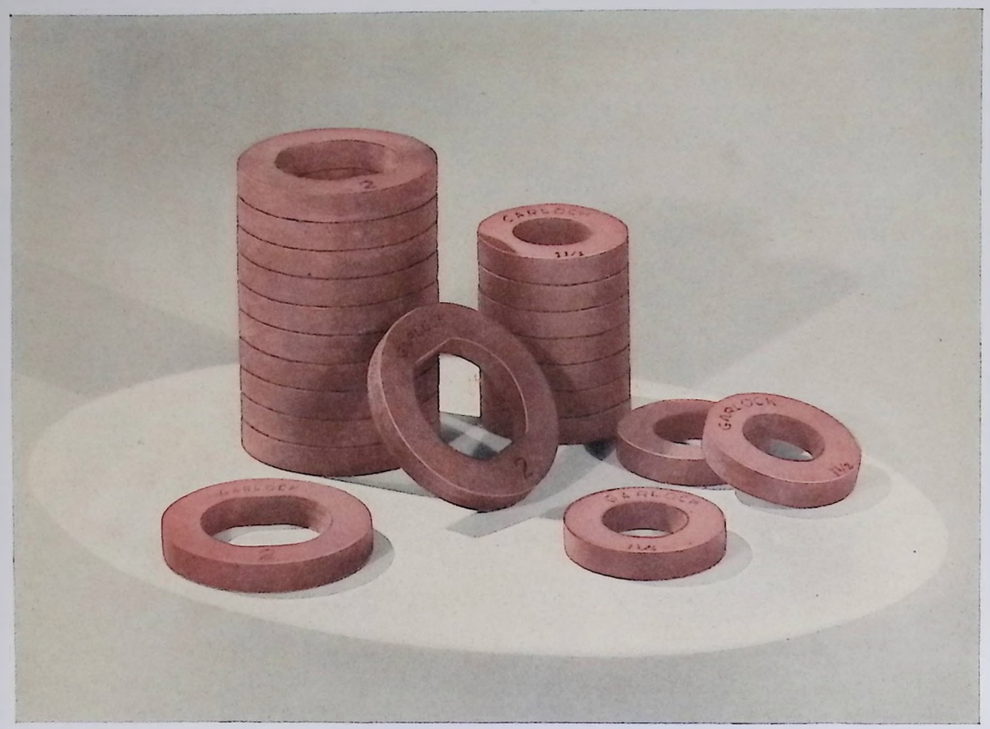
Garlock 155 Amberite pump rings are recommended for use on spool type pistons in pumps handling gasoline, oil, hot water, brine, weak acids or caustics where temperatures do not exceed 250° F.

These rings are furnished cut open, either with a bevel or step joint, or solid, as specified. Cut open rings may be had with spring wire expanders; made to cylinder size and tensioned by peening; or made oversize with a piece cut out so the ends must be sprung together to place rings in cylinder.

When specified, Amberite pump rings will be supplied from Garlock 113 stock.

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VALVE DISCS



GARLOCK 111 DISCS

Construction—GARLOCK 111 Valve Discs are manufactured from a heat-resisting asbestos and rubber compound, developed for use against the high steam pressures and temperatures encountered in valve disc service.

Service—Recommended for all globe and angle valves of the standard disc type. In addition to high steam pressures, GARLOCK 111 Valve Discs are also recommended for hot oil, hot water and many acid conditions.

Form—GARLOCK 111 Valve Discs are manufactured both in the round- and oval-hole type. They are supplied in all standard sizes, and in many special sizes and shapes.

Special Discs—For special service conditions, for which GARLOCK 111 Discs may not be entirely suitable, valve discs having the necessary characteristics for that specific service are furnished. Full information as to temperature, pressure and operating conditions is necessary to permit the development and manufacture of these special discs.

Standard sizes and list prices on GARLOCK Valve Discs are given below:

GARLOCK 111 VALVE DISCS

Size	List Price Each	Size	List Price Each	Size	List Price Each
1/4"	$ .03	2 "	$ .18	6"	$1.00
3/8"	.04	2 1/2"	.24	7"	1.20
1/2"	.04	3 "	.40	8"	1.40
5/8"	.05	3 1/2"	.50	9"	1.80
3/4"	.06	4 "	.60	10"	2.25
1 "	.09	4 1/2"	.70	12"	2.50
1 1/4"	.12	5 "	.80		
1 1/2"					

POLISHED ROD RINGS



GARLOCK 197 RINGS

GARLOCK 197

Construction—GARLOCK 197 Polished Rod Rings are made from a high-grade, soft white rubber compound. These rings are unusually resilient, and are recommended for general polished rod service.

Form—GARLOCK 197 Rings are made in all standard polished rod sizes, or in any special size required. Rings are furnished cut open as shown in the illustration.

GARLOCK 7505

Construction—GARLOCK 7505 Polished Rod Rings are made from a tough black rubber compound with high oil-resisting qualities. While it will not compensate for rod vibration to as great an extent as the softer GARLOCK 197 ring it is recommended for any polished rod service on which a harder ring is desired.

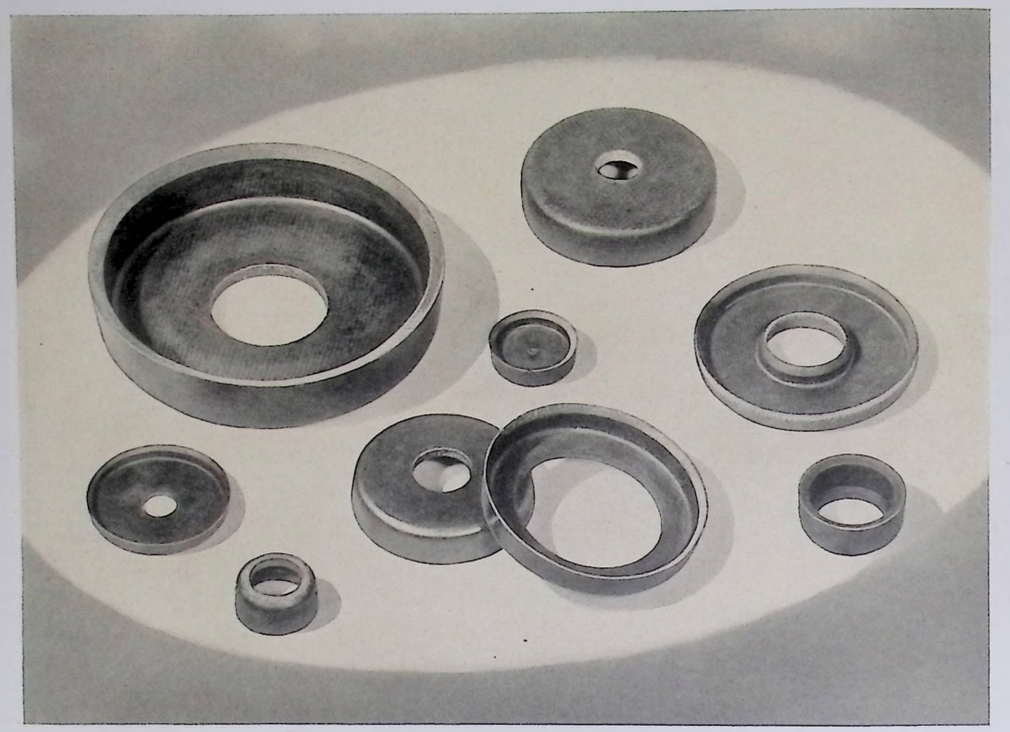
Form—GARLOCK 7505 Rings are made in all standard sizes for polished rod service and in any special sizes specified. Rings are cut open.

GARLOCK 182-1

Construction—GARLOCK 182-1 Polished Rod Rings are a composite rubber ring with the inner or wearing portion made of a semihard, tough compound and the outer portion of a softer, more resilient stock. The portion of the ring contacting the rod has the higher wear and oil-resisting qualities of harder rubber while the softer rubber backing adds the necessary resiliency to the ring.

Form—GARLOCK 182-1 Rings are made in all standard or special polished rod sizes. Rings are furnished cut open.

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GARLOCK MOLDED PACKING CUPS

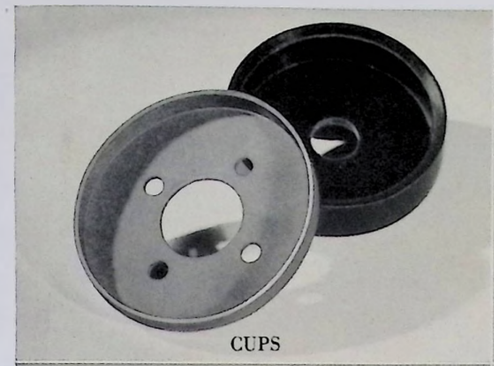
Construction—GARLOCK Molded Packing Cups are made of asbestos, duck or other fabrics, frictioned with heat- and oil-resisting compounds varied to meet specific service conditions.

Service—Included in the GARLOCK line are cups to meet every possible service condition including steam, air, water and oil.

GARLOCK Molded Packing Cups are recommended for service on any equipment on which cup packings are used. A few of the most common of these applications are:

Air Hoists
Pneumatic Chucks
Hydraulic Presses
Air Rams
Steam Cylinders on Vulcanizers
Steam Rams

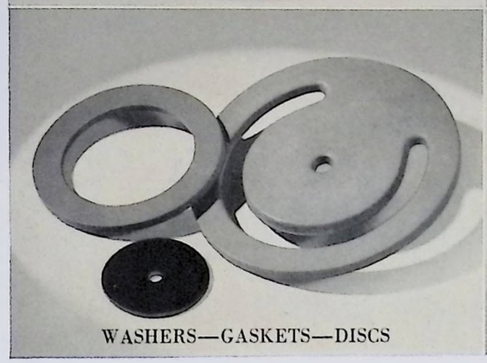
Form—GARLOCK Molded Packing Cups are produced in hundreds of different sizes, ranging in diameter from ½" up to 20". "U" and hat-type packings can be supplied in a limited size range.



CUPS



FLANGE or HAT PACKINGS



WASHERS—GASKETS—DISCS



"U" and "V" PACKINGS

GARLOCK LEATHER PACKINGS

Construction—GARLOCK Leather Packings are made from carefully selected leather, by experienced leather packing craftsmen, using the most modern equipment, tools and methods. The complete line of GARLOCK leather packings includes Oak tanned, Chrome tanned and the exclusive BITAN leather, which combines the best qualities of vegetable (oak) tannage and mineral (chrome) tannage. From GARLOCK BITAN leather, packings of the highest grade are produced.

Service—GARLOCK Leather Packings are recommended for service against cold water in heavy hydraulic duty, hot water, oils, gasoline and benzine, air, gas, oxygen and slightly acid or alkaline solutions where low or medium temperatures prevail. Tannage, treatment, and accuracy in size and finish are vitally important factors in the service obtained from leather packings. It is necessary, therefore, to supply complete information concerning operating conditions to insure the production of a material which will be suitable for the intended application.

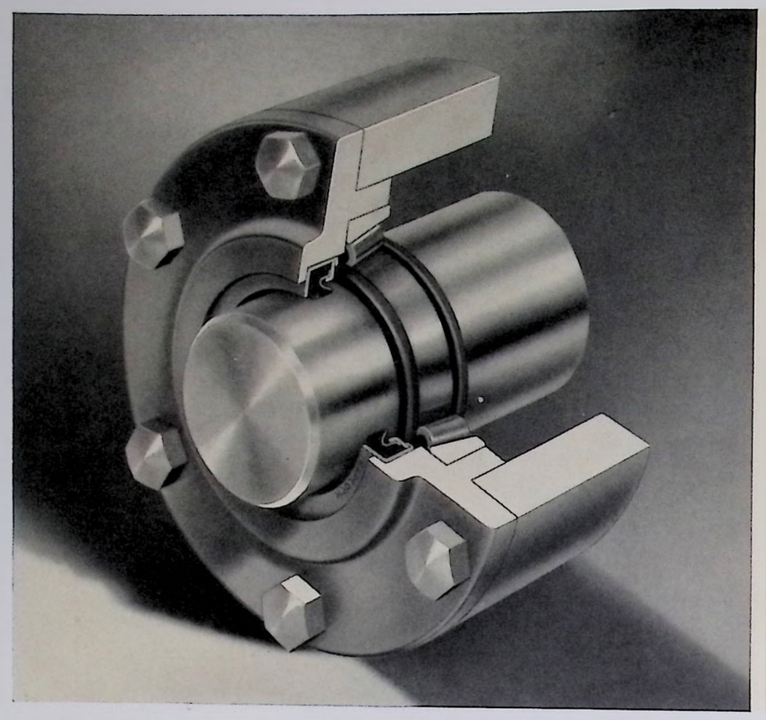
For many applications ordinary Oak or Chrome tanned leathers make satisfactory packings but where pressures are high, or where a leather packing is required to resist temperature or to operate against acid or alkaline solutions, GARLOCK BITAN should be used.

Form—GARLOCK Leather Packings are manufactured in all forms in which leather as a packing material is commonly used. These include:

Molded Cups, "U" and "V" Packings, Flange or Hat Packings, Washers, Gaskets and Discs.

Packings in any of these forms or types and in all commercially practicable sizes are made from Oak, Chrome or GARLOCK BITAN Leather.

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THE GARLOCK KLOZURE

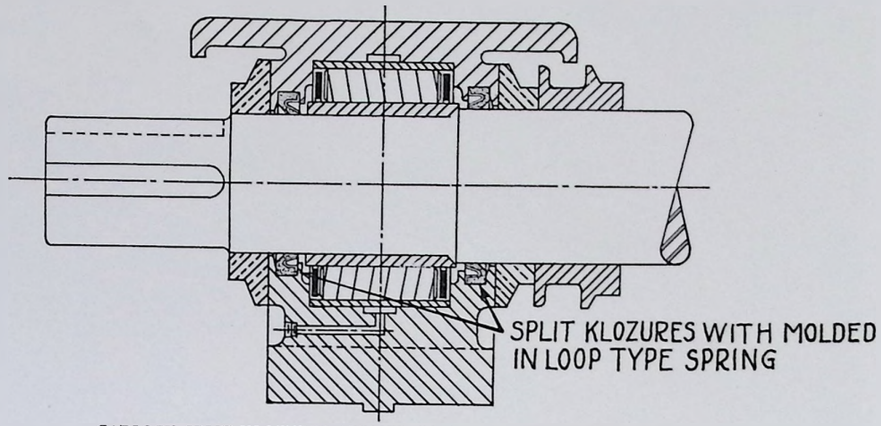
(Patented)

A SUPERIOR OIL SEAL

The GARLOCK KLOZURE is a patented oil seal of original and effective design developed by The GARLOCK Packing Company, and manufactured entirely in the GARLOCK factories.

The remarkable success of the GARLOCK KLOZURE may be attributed largely to the sealing or packing ring which is distinctly different from the leather, cork, felt, fibre or rubber sealing elements commonly used in oil seals. The KLOZURE sealing ring is a composition material, developed in the GARLOCK laboratories, which contains those materials having the chemical and physical properties necessary to perform satisfactorily in oil-seal service. This GARLOCK compound combines the most desirable characteristics of the several other materials ordinarily used for oil-seal service plus exceptional resistance to heat. It is oil resistant, tough, durable, nonporous, resilient and nonabrasive. It is molded to exact size which is of utmost importance on applications of this nature where adjustment of the sealing or packing ring is not possible after assembly.

The standard GARLOCK KLOZURE, illustrated above, consists of this molded sealing ring assembled with a V-shaped flexible metal spring or spreader into a metal shell or case, and combined into a unit by an adapter ring over which the case is flanged, holding the sealing ring and spring firmly in place. This standard design is suitable for the majority of applications, but many variations are possible because of the simplicity of the KLOZURE assembly and the plastic nature of the sealing ring compound which lends itself to molding into a great variety of cross-sectional shapes. Some of the most common adaptations of the standard design are also illustrated.



GARLOCK SPLIT KLOZURES APPLIED TO STEEL MILL TABLE ROLL

For those installations where a unit type seal is required but on which the solid, one-piece seal cannot advantageously be applied, the GARLOCK Split KLOZURE was developed. This design retains all the desirable features characteristic of the regular KLOZURE with the added advantage of split construction which permits quick and easy application or removal in inaccessible locations, and makes it unnecessary to dismantle machines or remove parts which would interfere with the application or removal of a solid, one-piece seal.

GARLOCK KLOZURES are made in a complete range of sizes to fit shafts from 9/32" to 40" diameter, or larger. Thickness, or width, runs from 1/4" for small seals up to 1" for those of large shaft diameters. Double and Duplex-type KLOZURES necessarily are thicker than standard KLOZURES.

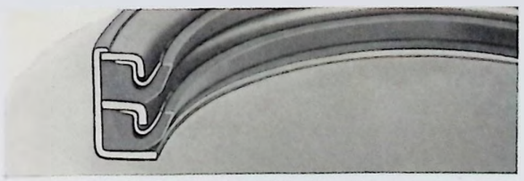
GARLOCK KLOZURES are suitable for application on any roll or ball bearing assembly where an oil seal is required. The metal case or shell of the GARLOCK KLOZURE is supplied, when so specified, of stainless steel, aluminum or brass. When desired, all metal parts are cadmium plated.



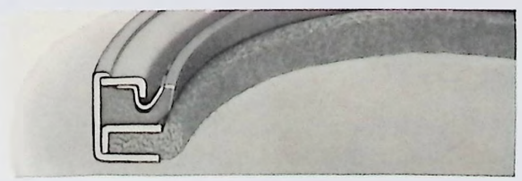
DOUBLE KLOZURE—Type V-1



DOUBLE KLOZURE—Type V-2



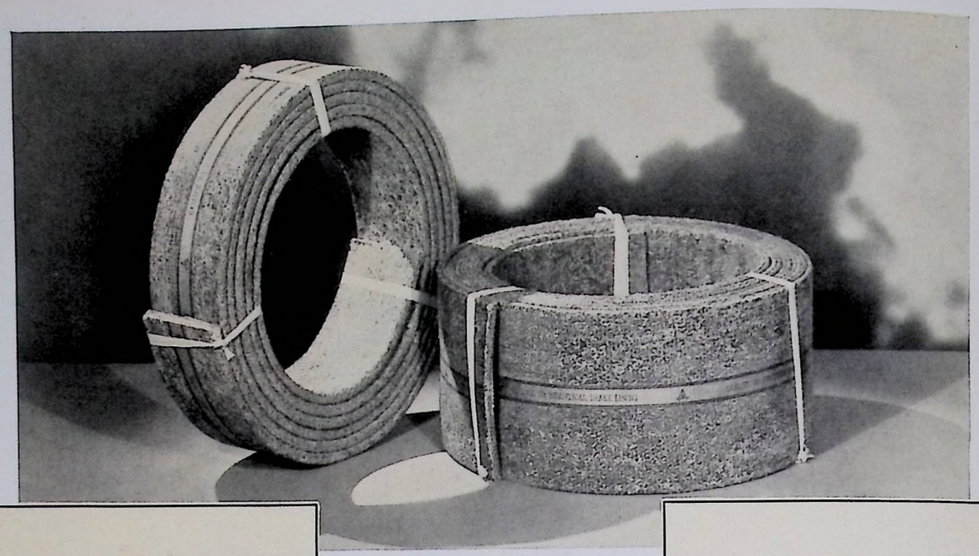
DUPLEX KLOZURE—Type V-2

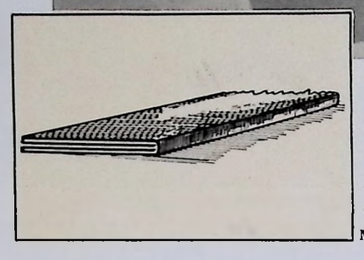


FELT WASHER TYPE KLOZURE

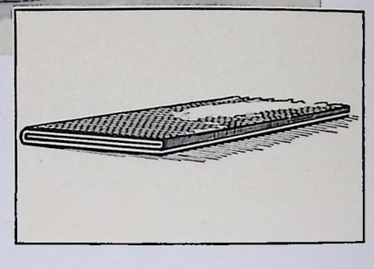
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INDUSTRIAL BRAKE LINING





GARLOCK INDUSTRIAL
BRAKE LINING



GARLOCK 701
Method of Folding

GARLOCK 7910
Method of Folding

GARLOCK Industrial Brake Lining was developed to meet a real need for a rugged, serviceable lining suitable for the severe service encountered on industrial equipment. In every respect it is a superior product.

Construction—GARLOCK Industrial Brake Lining is constructed of high-grade GARLOCK asbestos cloth, wire inserted and impregnated with a special rubber compound. It is folded, molded and vulcanized under 2000 pounds pressure.

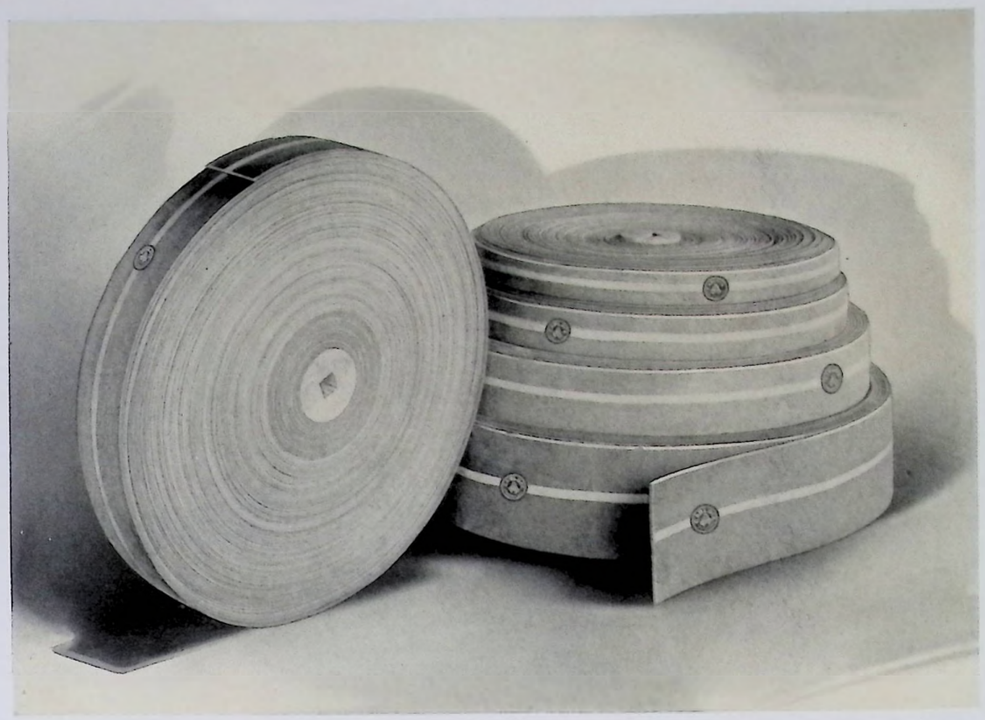
Types—GARLOCK Industrial Brake Lining is made in two types, GARLOCK 701 and GARLOCK 7910. The same materials enter into both of these products; they differ from each other only in the manner in which the asbestos cloth is folded.

Service—GARLOCK Lining is recommended for application to all kinds and types of industrial equipment. In the majority of instances GARLOCK 701 is used, although for certain types of service GARLOCK 7910 is the preferred type. It is desirable to consult a GARLOCK representative before choosing between these two materials. One of these two linings is suitable for almost any application on equipment such as:

- Steam Shovels
- Excavating Machines
- Ditchers
- Hoists and Derricks
- Concrete Mixers
- Cranes
- Logging Equipment
- Road-Building Machinery
- Elevators
- Lift Bridges
- Industrial Locomotives
- Drag Lines
- Steam Rollers
- Graders
- Airplane Catapaults
- Car Pullers

Form—GARLOCK Lining is furnished in all standard brake lining sizes from 1″ wide x ¼″ thick to 12″ wide x 1″ thick. Standard rolls contain 100 ft.; half rolls 50 ft. In the larger sizes it will be furnished cut in short lengths when so specified.

RUBBER TRANSMISSION BELTING



GARLOCK 725

With the development of GARLOCK 725 Rubber Transmission Belting a new high standard for rubber belts was established. From the specification and selection of raw materials entering into this product to the finished belt, every step in its manufacture is carried out with the sole idea of producing a quality belt.

Construction—GARLOCK Rubber Transmission Belting is constructed of two or more plies of high-grade belting duck, frictioned with a special rubber compound. It is folded to size and cured under tremendous pressure.

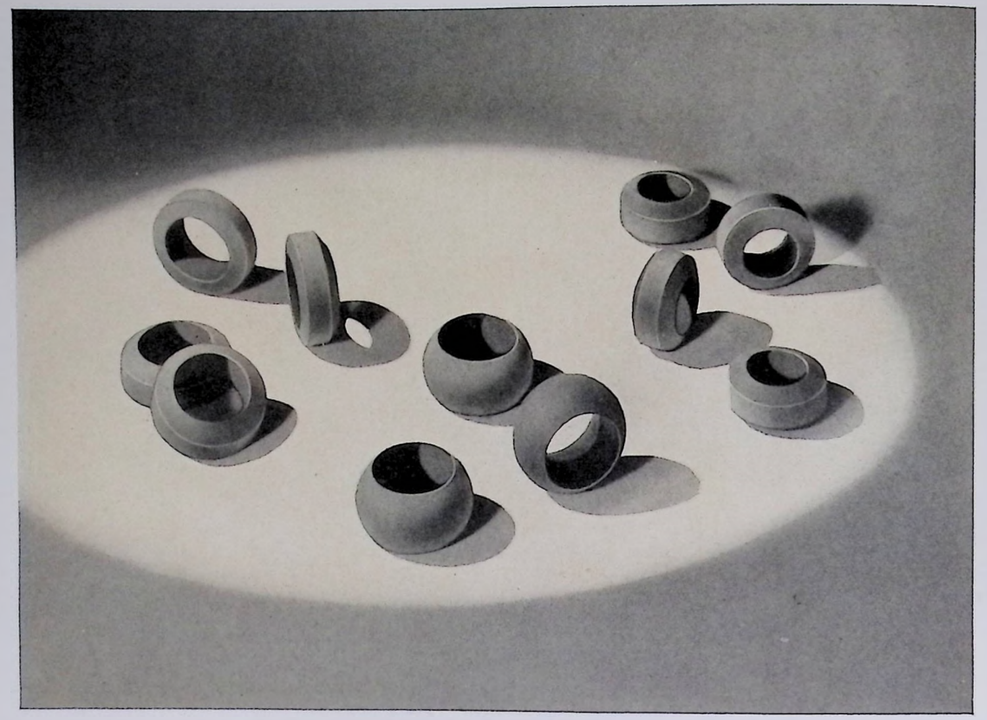
When so specified GARLOCK 725 will be supplied with Neoprene cover. This treatment does not affect the inherent qualities of the belt and provides greater resistance to the deteriorating effects of oil and grease.

Service—GARLOCK Belting is recommended for all power transmission work where a flat belt is suitable. Many successful installations of GARLOCK Belting have been made on conditions where inferior rubber belts have failed. Outstanding characteristics of GARLOCK belting are:

1. Extremely long life.
2. Superior wearing qualities.
3. Unusual flexibility.
4. Exceptional gripping power.
5. Rugged strength.

Form—Furnished in all standard belt sizes from 1″ x 2 ply to 28″ x 12 ply. When ordering specify exact length desired.

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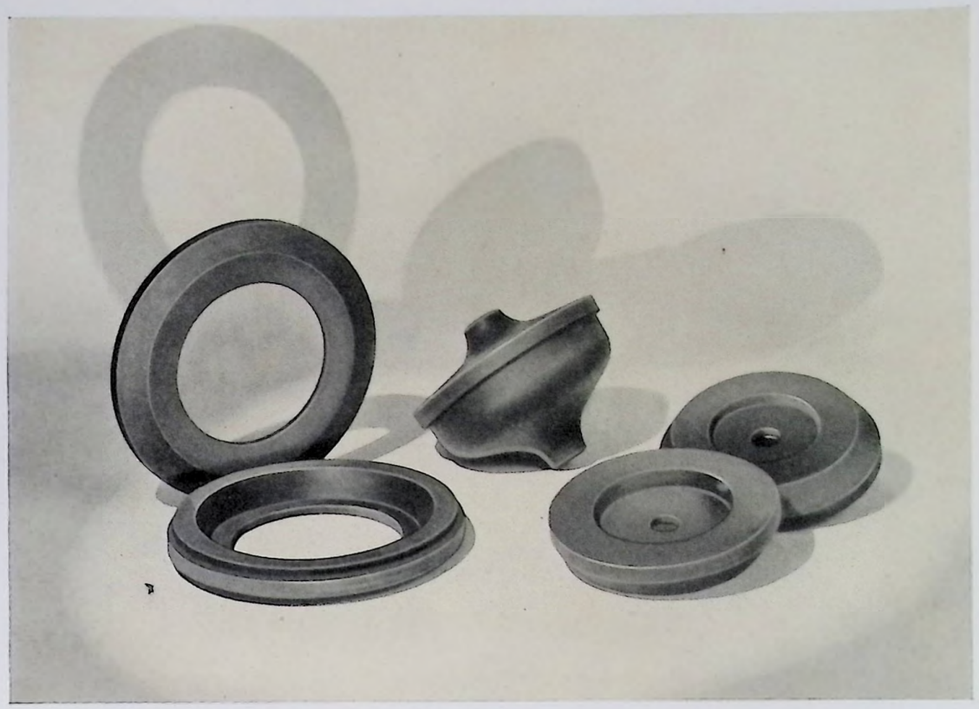


EVAPORATOR TUBE RUBBER GASKETS

Construction—GARLOCK Evaporator Tube Gaskets are molded from GARLOCK 95 stock. This is a medium soft gray compound containing a high percentage of rubber; it is tough and resilient and ages well either in service or in stock.

Service—GARLOCK 95 Evaporator Tube Gaskets are recommended for any evaporator service for which a long life rubber ring is desired.

Form—Our complete mold equipment makes it possible for us to supply evaporator tube rings in all standard sizes and shapes to fit tubes from 5/8″ to 2″. Special sizes, shapes and compounds can be produced for special requirements.



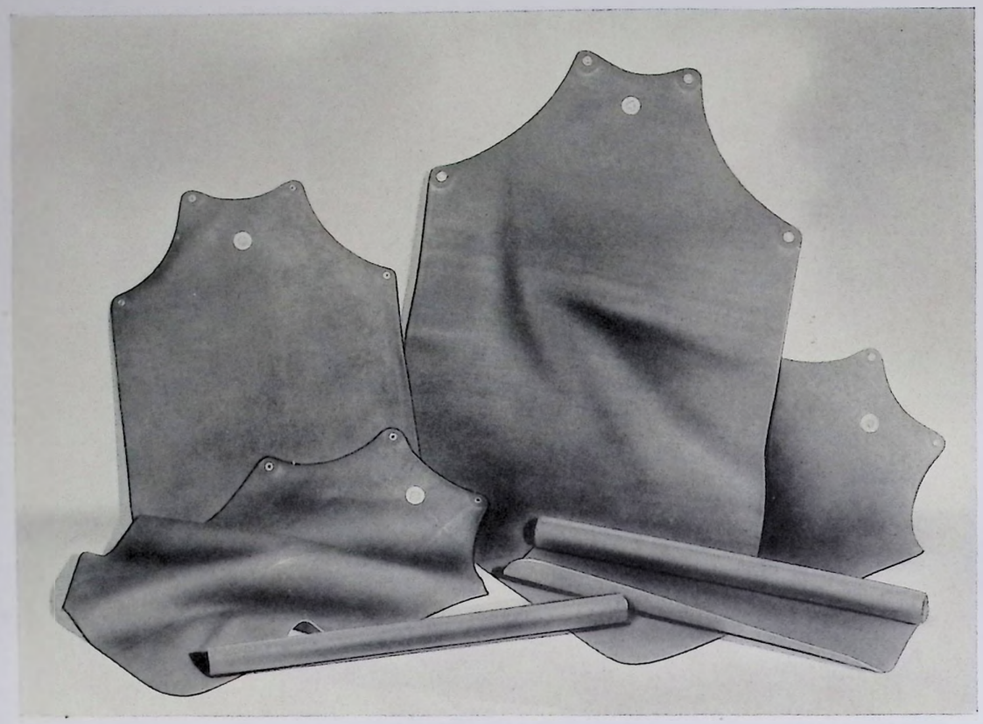
RUBBER HYDRANT VALVES

Construction—GARLOCK Rubber Hydrant Valves are molded from high-grade rubber compounds made to GARLOCK formulae. Each of the compounds used in the manufacture of hydrant valves is one which has been in the GARLOCK line for many years and has proved entirely satisfactory on the service for which recommended.

Service—For pressures below 75 pounds per square inch GARLOCK 139 or GARLOCK 175 valves are recommended. These are both medium soft compounds. For pressures from 75 to 100 pounds GARLOCK 182, which is a medium hard compound, is recommended.

Form—GARLOCK Hydrant Valves are molded to exact size and shape to fit practically any standard hydrant. Our mold equipment includes molds for Bourbon, Cory, Darling, Detroit, Eclipse, Eddy, Iowa, Ludlow, Matthews, National, Pratt & Cady, Smith, Tamaqur, Traverse City, Vogt, Watrous, and other hydrants.

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GARLOCK RUBBER APRONS

GARLOCK 7106—ACID-RESISTANT APRON

GARLOCK 7106 Rubber Aprons for acid service are constructed of a single ply of fine cotton fabric frictioned on both sides with a high-grade, black rubber compound.

This apron is highly recommended for use in sheet and tin plate mills, chemical plants, process plants and in the many other industries where acids are used. It also is an excellent garage apron.

GARLOCK 7106 Aprons are cut in a proper shape to give complete protection and are furnished with strongly reinforced brass eyelets correctly placed for tie-strings.

GARLOCK 7663—GREASE-RESISTANT APRON

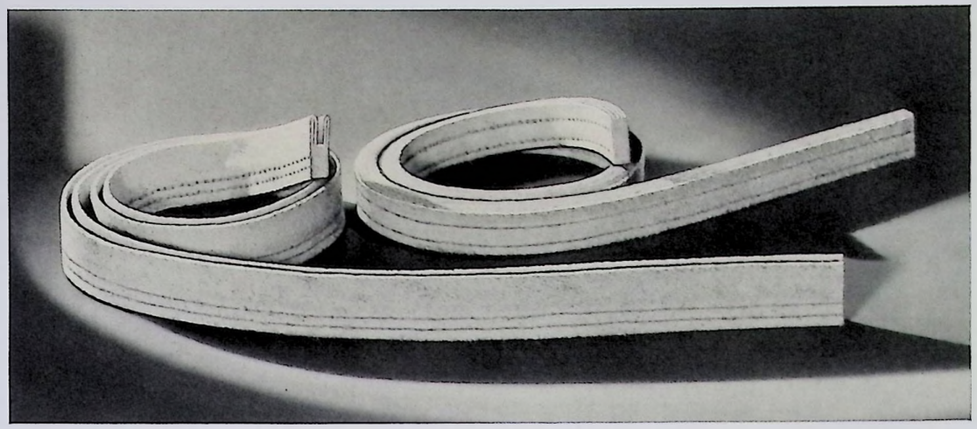
GARLOCK 7663 Rubber Aprons for grease service are constructed of a single ply of fine cotton fabric frictioned on both sides with a high-grade, black rubber compound.

This apron is highly recommended for use in creameries and dairies, packing plants, milk handling plants and similar industries.

GARLOCK 7663 Aprons are cut in a shape which affords complete protection and are furnished with strongly reinforced brass eyelets properly placed for the tie-strings.

Listed below are dimensions and weights of the two standard sizes of GARLOCK Aprons:

	Length	Width	Approximate Weight Each	
Large Size	45″	32″	7106—41 oz.	7663—37 oz.
Small Size	39″	25″	7106—31 oz.	7663—29 oz.

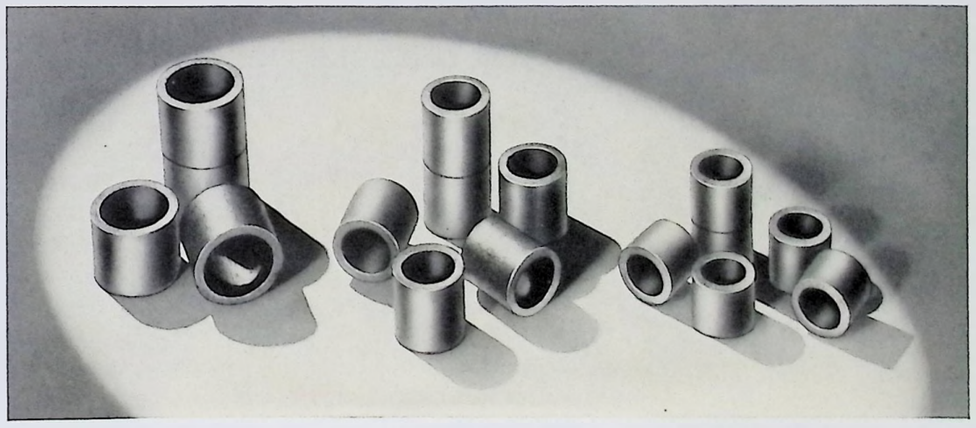


GARLOCK ASBESTOS TINNING MACHINE BRUSHES

(Patented)

GARLOCK Asbestos Tinning Machine Brushes are constructed of wire inserted asbestos cloth plied up fold upon fold. They have a raw wearing edge which may be beveled to suit the contour of the tinning machine rolls. These brushes are sewed with wire.

Brushes are made in two types—Solid and Hollow Back. The hollow back brush is used in conjunction with a filler of asbestos or metal. Furnished in a complete range of sizes for application on rolls of tinning machines. When ordering, width, thickness and length of brush should be specified.



CONDENSER TUBE PACKING

GARLOCK 954

GARLOCK 954 Condenser Tube Packing Rings are molded from specially treated unvulcanized asbestos fibrous compound. They meet every requirement of condenser tube packing service.

GARLOCK 954 Rings are furnished in sizes to suit any condenser equipment. They are easily applied with a special tool which will be furnished on request at a nominal charge.

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GARLOCK Lubricating Pastes—To provide packing users with the correct lubricants for packings GARLOCK Lubricating Pastes have been developed. Made of the highest grade materials these pastes are the most effective and economical lubricants for packings. Their regular usage will prolong the life of packings in service.

COMPOUND NO. 2 FOR STEAM AND WATER



GARLOCK Compound No. 2 is a lubricating paste, containing graphite, for application to rod packings working against steam, hot water, cold water or water solutions. By coating the packing with No. 2 Compound at the time of installation and by making subsequent applications regularly through a pressure fitting or by swabbing the rod, the efficiency of the packing will be greatly increased. This Compound has a high lubricating value, maintains proper viscosity under heat, is steam- and waterproof, and is a rust and corrosion preventive.

Compound No. 2 is supplied in 12-ounce, 24-ounce and 5-pound cans and in bulk for large users.

COMPOUND NO. 3 FOR GASOLINE AND OILS



GARLOCK Compound No. 3 is a lubricant for rod packings operating against gasoline, benzine, oils, ether, carbon tetrachloride, kerosene, diphenyl and all vapors or chemicals of an oily nature. Before applying packing to the stuffing box it should be coated with this paste and subsequent applications should be made, as required, through a pressure fitting or by swabbing the rod. The use of No. 3 Compound on packings in this type of service increases the resistance of the packing to the deteriorating action of gasoline and other solvents, prevents seepage through the packing and makes leakproof operation possible without excessive gland pressure.

Compound No. 3 is packaged in 12-ounce, 24-ounce and 4¼-pound cans, and in bulk for large users.

CRANDALL LUBALL FOR STEAM AND WATER

Crandall Luball is a patented packing lubricant sold exclusively by The GARLOCK Packing Company. It contains no graphite and is for application to rod packings operating against steam or water at temperatures up to 500° F. Luball should be applied externally to packings at the time of installation and subsequent applications made through pressure fitting or grease cup, with a lantern ring. This non-graphitic compound is completely waterproof, has a high lubricating value and will not corrode chromium steel rods.

Luball is packaged in 1-pound, 5-pound and 10-pound cans, and in bulk for large users.



COMPOUND NO. 1 GASKET PASTE

GARLOCK Gasket Paste, Compound No. 1, is recommended for application to gaskets operating against steam, gasoline, oil and petroleum derivatives, either hot or cold, and for wiping threaded joints in pipe lines carrying the same liquids. No. 1 Compound is not harmful to gaskets, expands under heat making a tight joint, will not discolor gasoline or other clear liquids, requires no thinning and will not ferment in storage.

This compound is packaged in 12-ounce, 24-ounce and 5-pound cans, and in bulk for large users.



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GARLOCK THIOKOL PRODUCTS

GARLOCK Thiokol Packings and other Thiokol products are manufactured from special compounds containing Thiokol, developed in the GARLOCK Laboratories. This Company has been one of the pioneers in adapting Thiokol as an ingredient of packings.

In the compounding of Thiokol products, all the desirable and unusual characteristics of Thiokol have been retained. Thiokol products, therefore, have the resiliency of rubber, but, unlike rubber, are entirely impervious to the deteriorating action of oil, gasoline, benzine, ether, carbon tetrachloride and other liquids which are rubber solvents. Thiokol products are not recommended for any service on which temperatures in excess of 180° Fahrenheit are encountered.

GARLOCK Thiokol materials are produced in a variety of forms. Constant research and experimental work are resulting in the frequent addition of new Thiokol products to those already developed. The most commonly used GARLOCK Thiokol styles are indicated below:

GARLOCK	Form	Construction
7601	Sheet	Plain Thiokol Compound
7601	Gasket	Plain Thiokol Compound
7601	Ring	Plain Thiokol Compound
7601	Tubing	Plain Thiokol Compound
7603	Sheet	Cloth Inserted Thiokol Compound
7603	Gasket	Cloth Inserted Thiokol Compound
7700	Sheet	Wire Inserted Thiokol Compound
7700	Gasket	Wire Inserted Thiokol Compound
7762	Cup	Thiokol combined with Fabric
7720	Ring	Thiokol combined with Duck
7720	Disc	Thiokol combined with Duck

GARLOCK COMPOUNDS CONTAINING NEOPRENE

Neoprene is a synthetic, plastic material which is employed by The GARLOCK Packing Company in the manufacture of several special compounds from which packings and other GARLOCK products are produced.

Materials made from these Neoprene compounds are highly resistant to hot or cold oils. They may be used safely in service against hot oils under conditions which are destructive to ordinary rubber compounds.

The most important GARLOCK compounds containing Neoprene and the products manufactured from those compounds are listed below:

GARLOCK 7300 COMPOUND

GARLOCK 7300 is a semi-hard Neoprene compound from which sheet packing, rings, gaskets, discs, sleeves, strips and special molded shapes are produced.

GARLOCK 7797 COMPOUND

GARLOCK 7797 is a medium hard Neoprene compound available in the following forms: sheet, ring, gasket, disc, sleeve, strip and molded to special shapes.

GARLOCK 7986 COMPOUND

GARLOCK 7986 is a soft Neoprene compound from which sheet packing, rings, gaskets, discs, sleeves, strips and molded shapes are produced.

GARLOCK 7228 ASBESTOS SHEET

GARLOCK 7228 is a compressed asbestos sheet packing containing a Neoprene compound binder.

GARLOCK 7279 COIL AND RING

GARLOCK 7279 is a slab material consisting of laminated plies of high-grade cotton duck and Neoprene compound. Coil and ring packings are produced from this slab.

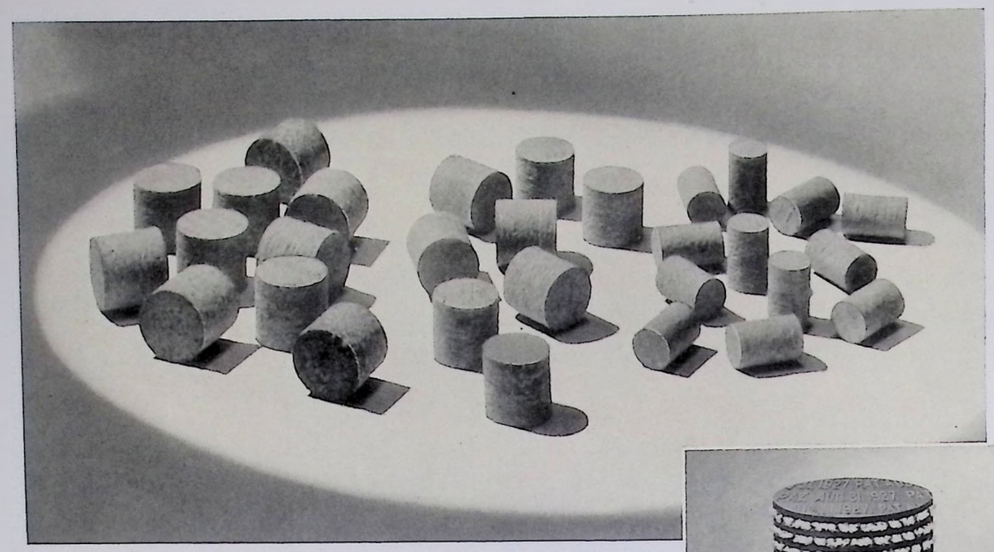
GARLOCK 7992 DIAPHRAGM SHEET

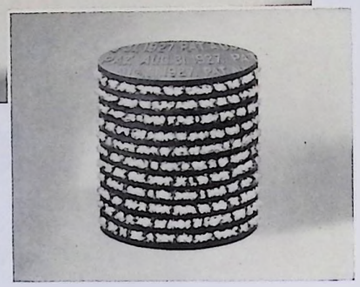
GARLOCK 7992 is a special diaphragm sheet made from a Neoprene compound.

GARLOCK 7271 MOLDED CUPS

GARLOCK 7271 is a high-grade cotton duck and Neoprene compound used for the manufacture of molded cups.

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GARLOCK CORD PLUGS

(Patented)

Construction—GARLOCK Cord Plugs are constructed of alternate plies of an open weave cord cloth and specially compounded rubber, vulcanized together under pressure. They are a patented product.

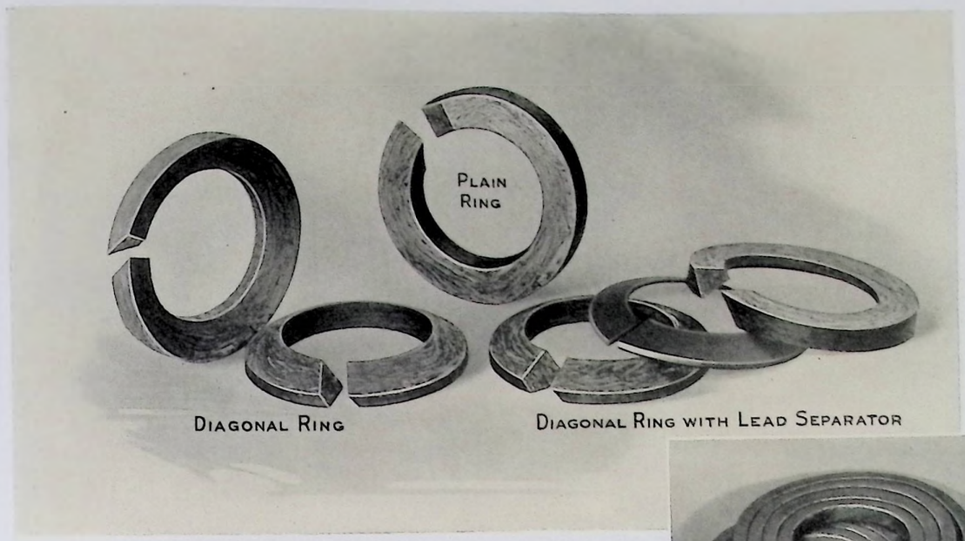
Service—Recommended for cleaning and scouring the inside walls of condenser tubes. Due to their sturdy construction, GARLOCK Cord Plugs can be used many times before becoming worn.

Form—GARLOCK Cord Plugs are furnished in ¾" thickness and in ten standard diameters. This range of sizes includes a plug to fit any standard tubes with which condensers are equipped.

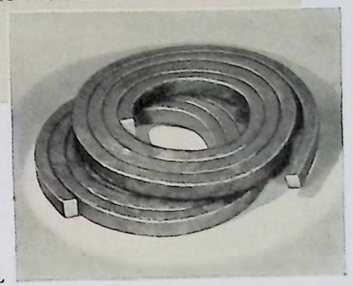
The air gun for use in shooting GARLOCK Plugs is simple in design and can be made in any machine shop equipped with a lathe. Instructions as to the necessary parts and construction of the gun will be furnished on request.

The table below indicates the proper GARLOCK Plug number for tubes of different diameters and gauge.

Outside Diameter of Tube	Gauge (Birmingham or Stubbs Iron Wire)	Plug No.	Outside Diameter of Tube	Gauge (Birmingham or Stubbs Iron Wire)	Plug No.
1 "	16	1016	¾"	17	3417
1 "	18	1018	¾"	18	3418
⅞"	16	7816	⅝"	16	5816
⅞"	18	7818	⅝"	17	5817
¾"	16	3416	⅝"	18	5818



SHREDDED METAL RINGS



SHREDDED METAL COIL

Construction—GARLOCK Shredded Metal Packings are produced of strands of soft metal treated with a binding compound and flake graphite.

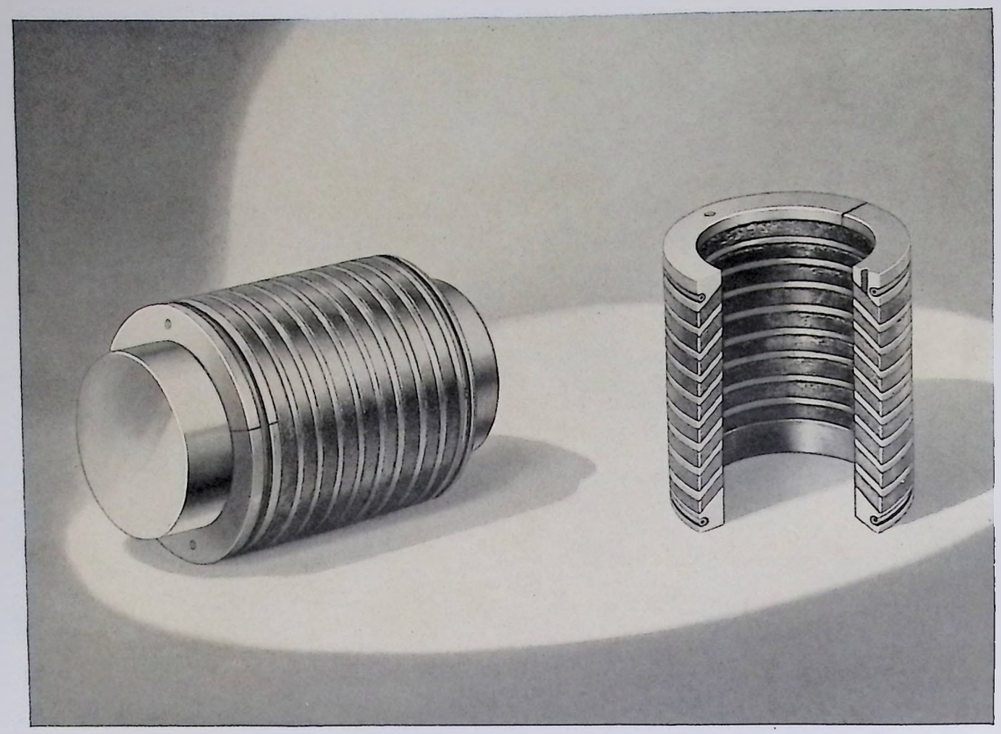
Service—Recommended for service on Corliss and reciprocating valve stems, steam and air piston rods, centrifugal pumps handling hot or cold water, small steam turbine shafts, enclosed type ammonia compressor shafts, swing joints and outside packed cold water plungers. The Shredded Metal Packings below are recommended for temperatures up to 600° Fahrenheit. Shredded Metal Ring Packings for higher temperatures are described on page 138.

Form—GARLOCK Shredded Metal Packings are manufactured from fine strand, grooved strand, or crimped strand, soft metal. They are furnished in loose form, twisted coil and formed rings, either plain or diagonal. Diagonal rings can also be furnished with a lead cone (see illustration).

Indicated below are GARLOCK styles of Shredded Metal Packings showing the forms of packing and types of strand used:

Fine Strand		Grooved Strand		Crimped Strand	
GARLOCK	Description	GARLOCK	Description	GARLOCK	Description
998	Straight coil, loose	992	Straight coil	999	Rolled coil (lead wool)
988	Twisted coil, rolled	982	Twisted coil	969	Plain ring
968	Plain ring	962	Plain ring	949	Diagonal ring
948	Diagonal ring	942	Diagonal ring	939	Diagonal ring, lead cone
938	Diagonal ring, lead cone	932	Diagonal ring, lead cone		

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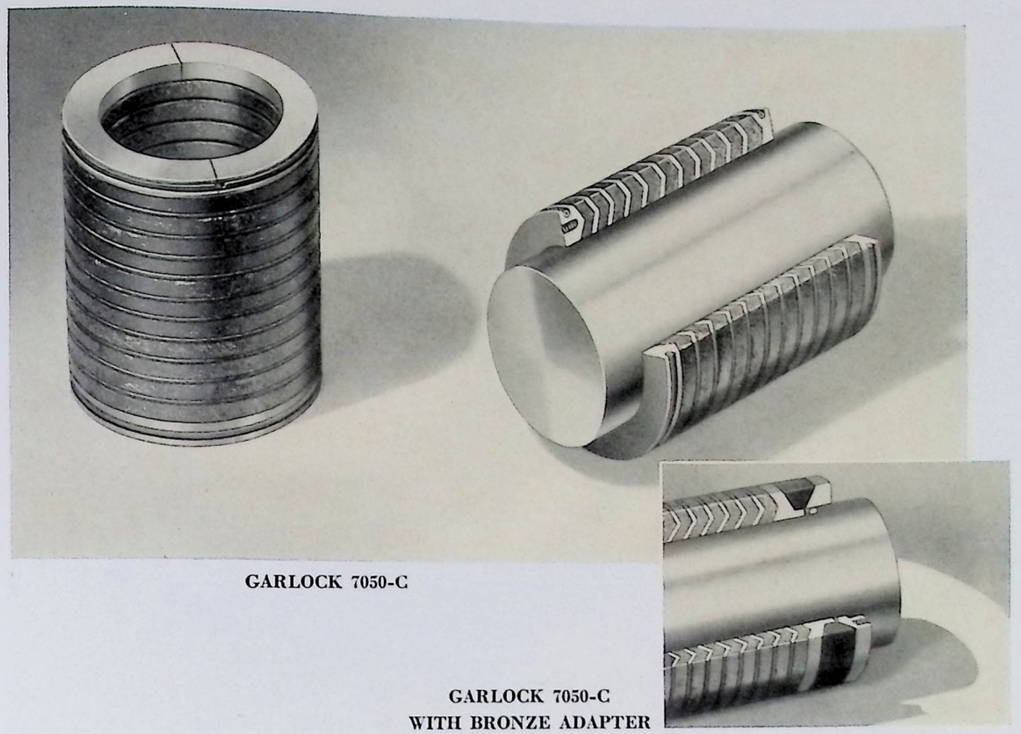


GARLOCK 7050

GARLOCK 7050 is an advanced development in Shredded Metal Packing, consisting of one concave bevel bottom ring and one convex bevel top ring—both made of babbitt—and a series of concave-convex molded shredded metal rings, alternated with metal separator rings.

GARLOCK 7050 is recommended for air, steam and gas service at temperatures up to 625° Fahrenheit. Being thoroughly impregnated with graphite, GARLOCK 7050 is particularly adapted for high-pressure and high-speed air and gas compressor service.

Sets of GARLOCK 7050 are molded in sizes to specified rod and stuffing box dimensions.



GARLOCK 7050-C

GARLOCK 7050-C
WITH BRONZE ADAPTER

GARLOCK 7050-C is a special GARLOCK development in shredded metal packing consisting of one top and one bottom adapter ring made of babbitt, and a series of V-shaped molded shredded metal rings, alternated with soft metal separator rings.

GARLOCK 7050-C is recommended for high-pressure and high-speed air and gas compressor service, at temperatures up to 625° Fahrenheit.

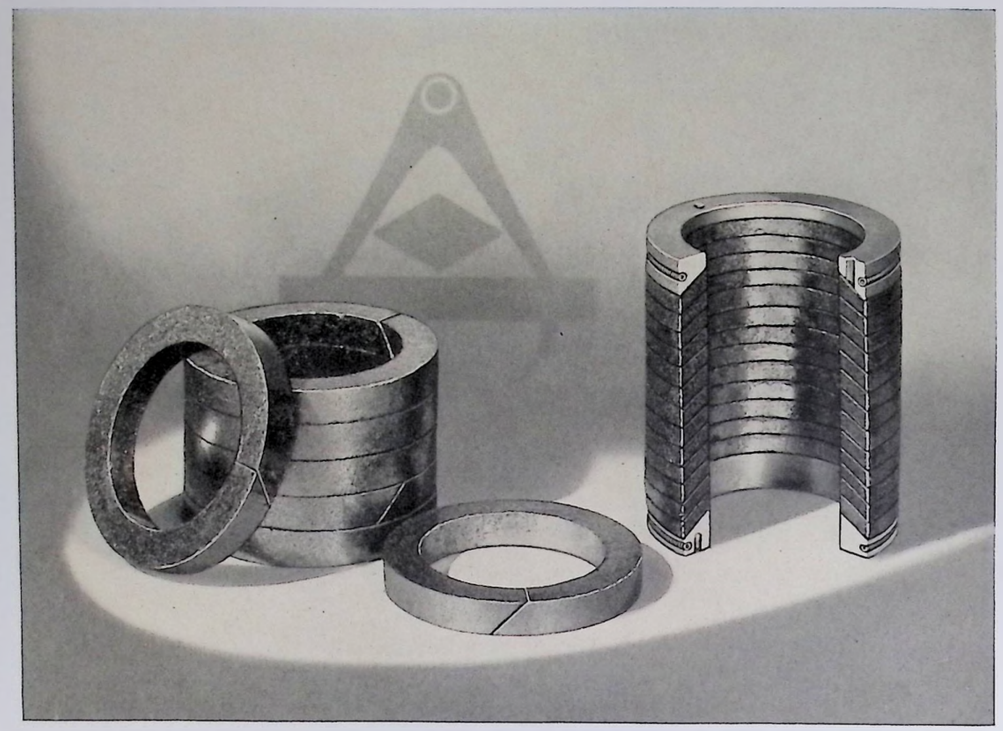
SPECIAL BRONZE TOP ADAPTER

The small picture above illustrates GARLOCK 7050-C combined with a special bronze top adapter. This combination is highly recommended and widely used in high-pressure service on enclosed type CO_2 compressors.

SPECIAL TOP AND BOTTOM BRONZE ADAPTERS AND BRONZE SEPARATOR RINGS

This special combination is particularly adapted for service on outside packed plungers of boiler feed pumps handling high-pressure hot water under the most severe conditions.

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GARLOCK 934 GARLOCK 935

HIGH TEMPERATURE SHREDDED METAL PACKINGS

GARLOCK 934

GARLOCK 934 is a high-temperature, shredded metal ring packing molded square or rectangular in cross section from shreds of special metal floss. It is suitable for service against temperatures up to 1500° Fahrenheit.

GARLOCK 934 will be furnished in rings to practically any desired rod and stuffing box dimensions; also in sets to specified stuffing box depths.

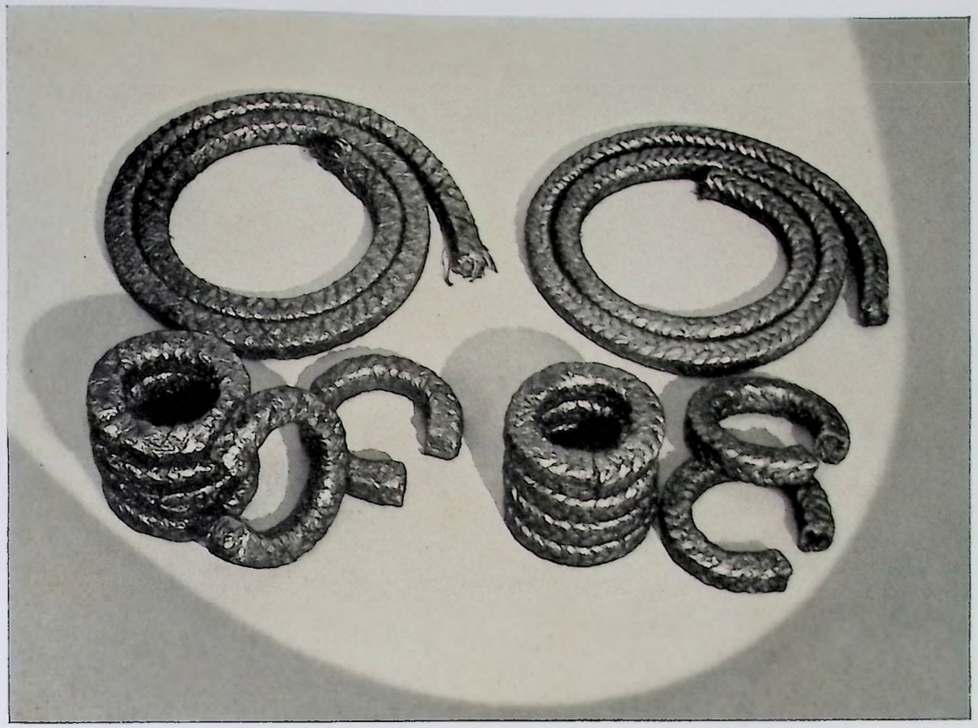
This material is highly recommended for service on valve stems and piston rods on which high temperatures are encountered. Particularly suitable for service on the rotary shafts of soot blowers.

GARLOCK 935

GARLOCK 935 is a special high-temperature shredded metal packing. It is regularly furnished in sets consisting of one concave bevel bottom ring and one convex bevel top ring—both made of red metal—and a series of concave-convex, molded shredded metal rings. These shredded metal rings are produced from strands of special metal floss suitable for service against temperatures up to 1500° Fahrenheit.

GARLOCK 935 is often supplied without red metal end rings for application in stuffing boxes having beveled glands and bottoms. In ordering sets of this nature, the type and degree of bevel of both the gland and the bottom of the box must be indicated.

GARLOCK 935 can be furnished in practically any rod and stuffing box sizes. It is highly recommended for service on valve stems and piston rods operating at high temperatures; also for rotary shafts of small turbines and blowers.



METAL FOIL COIL AND RING PACKINGS

GARLOCK METAL FOIL PACKINGS

GARLOCK 944

Construction—GARLOCK 944 is made from cotton strands covered with metal foil, braided over a core of resilient rubber, graphite lubricated throughout, and covered with a skeleton braided cotton jacket.

Service—GARLOCK 944 is recommended for service on rods operating against air or steam at high or low pressures, wet or dry natural gas, ammonia gas and CO_2 or SO_2 gas where temperatures do not exceed 575° F.

Form—GARLOCK 944 is square in cross section and is furnished in 12½-foot coils in packing sizes from ¼" to 1¼", advancing by sixteenths. Rings are furnished cut and formed to specified sizes.

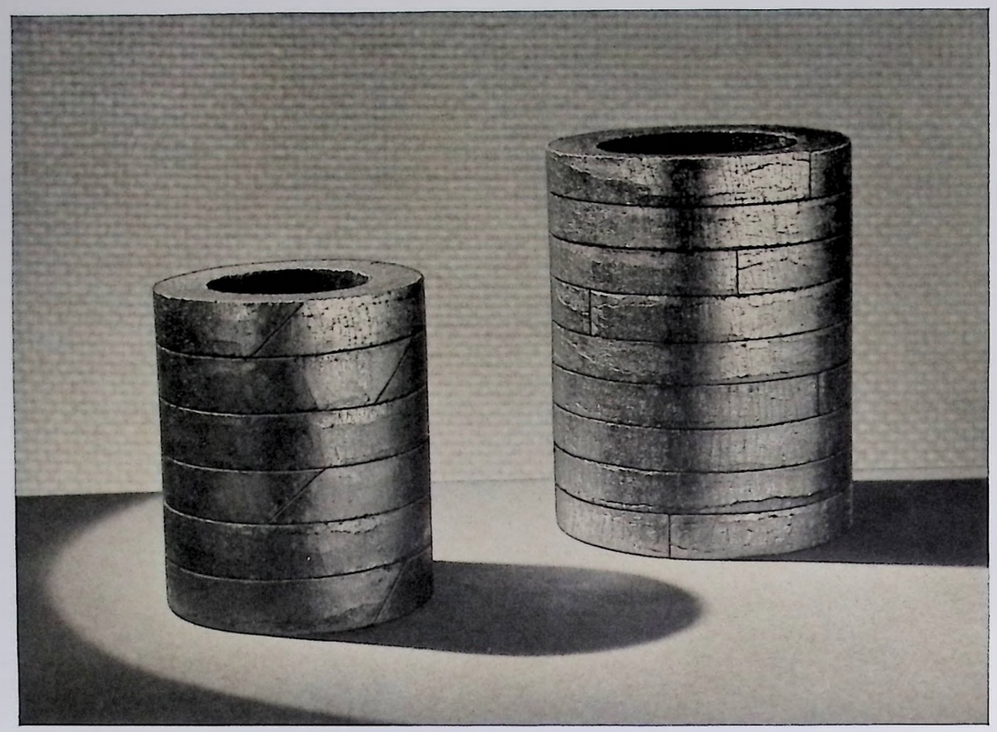
GARLOCK 945

Construction—GARLOCK 945 is braided from cotton strands covered with metal foil and thoroughly lubricated with graphite. It does not contain a rubber core.

Service—This material is recommended for application to rods in service against high or low pressure steam or air, wet or dry natural gas, ammonia gas, CO_2 gas or SO_2 gas. It is not suitable for use where operating temperatures are in excess of 575° F.

Form—GARLOCK 945 Coil is square in cross section and is furnished in all packing sizes from ¼" to 1¼" advancing by sixteenths. Coils are 12½-feet long. Formed rings are supplied to specified inside and outside diameters.

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GARLOCK METAL FOIL PACKINGS

GARLOCK 915

Construction—GARLOCK 915 is a semi-metallic packing consisting of an asbestos core wrapped with aluminum foil. The aluminum foil is pleated into countless small pleats, each of which serves as a reservoir or pocket for the special lubricant and graphite with which the packing is treated. This distinctive pleated construction results in an elasticity and compressibility far in excess of that ordinarily found in semi-metallic packings.

Service—GARLOCK 915 is recommended for application to centrifugal, rotary and reciprocating pumps and to valves in hot oil service.

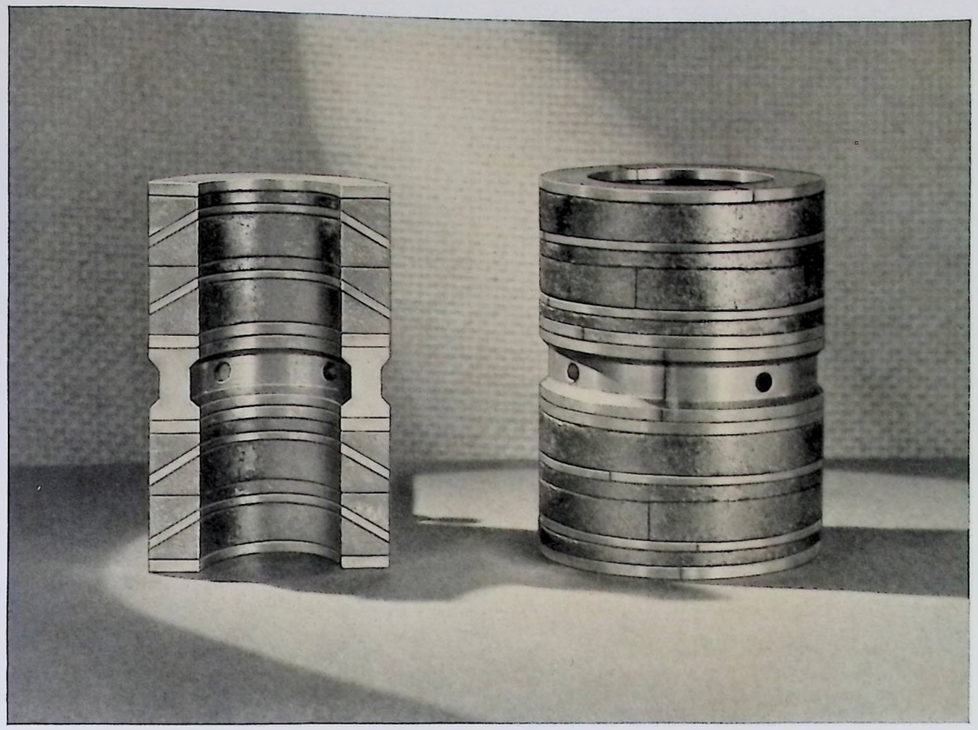
Form—GARLOCK 915 is furnished in spiral and ring forms. Spiral is available in sizes $\frac{3}{8}$" to $\frac{3}{4}$" inclusive, 12 feet long. Rings are available in sizes from $\frac{5}{8}$" to 10" I.D. and in packing widths from $\frac{1}{4}$" to $\frac{3}{4}$".

GARLOCK 916

Construction—GARLOCK 916 is similar in construction to GARLOCK 915 except that it is made from lead foil instead of aluminum foil and contains no asbestos core. It is lighter in weight and more compressible than lead packings of conventional types.

Service—GARLOCK 916 is recommended for steam, air and hot or cold water service, for either reciprocating or rotary applications. This material should not be used where operating temperatures are in excess of 600° F.

Form—GARLOCK 916 is supplied in ring form only; it is not available in coil or spiral forms. Rings are molded to specified dimensions in any size from $\frac{5}{8}$" to 10" I.D., and in any packing width from $\frac{1}{4}$" to $\frac{3}{4}$".



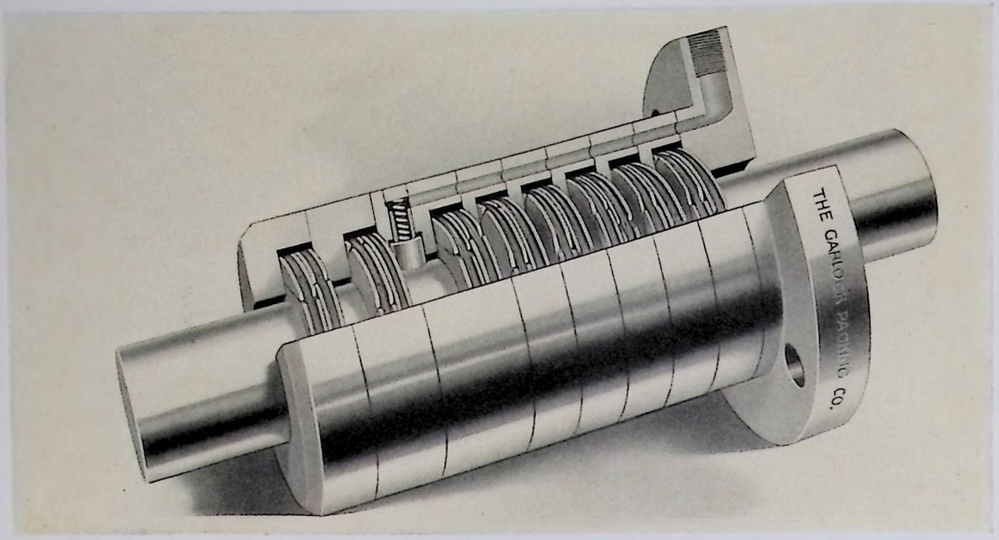
GARLOCK 941

Construction—GARLOCK 941 is a special packing made in sets to fit rotary shafts on refrigerating compressors and consists of diagonally molded shredded metal rings with machined, babbitt separator rings. Machined babbitt spacer rings are provided for application in the bottom of the stuffing box, on either side of the oil lantern and in the top of the stuffing box between the last diagonal ring and the gland. All rings are cut open for application around the shaft.

Service—GARLOCK 941 was designed specifically for service on rotary shafts of vertical refrigerating compressors. It is recommended for use on such compressors handling freon, ammonia or CO_2 gases.

Form—GARLOCK 941 is furnished only in completely assembled sets to fit shaft and stuffing box dimensions. Oil lanterns are furnished with sets only when customer so specifies.

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FLOATING METAL PACKINGS

For many years The GARLOCK Packing Company has manufactured in its own factories a complete line of floating metal packings. Designed by experienced engineers, made from the highest-grade, carefully selected materials, and machined by skilled mechanics to an exceptional degree of precision, GARLOCK floating metal packings are outstanding in the metal packing field.

In this catalog floating metal packings are briefly described and illustrated. A special catalog, which carries complete information on the entire line of GARLOCK metal packings, will be supplied to metal packing users upon request.

PRESSURE PACKING RINGS

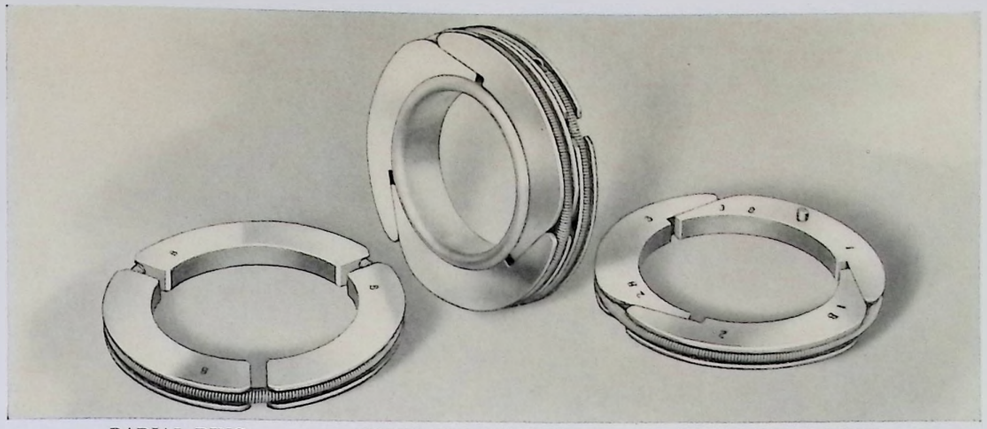
Construction—GARLOCK floating metal packings are supplied in complete sets consisting of three or more sections of packing each fitted into a separate cup or groove in a metal case. The number of sections of packing required and the design of the assembly depend upon the pressure to be packed and other operating conditions. Each set of GARLOCK metal packing, therefore, is engineered to meet the service requirements of the specific application for which it is intended.

Types of Rings—Several types of metal packing rings or sections are employed in designing GARLOCK metal packing assemblies. In every instance the type of ring best suited for the specific application under consideration is selected and recommended.

For most applications, however, metal packing sections employing the tangential cut ring are supplied. A section of this packing consists of one tangential cut ring (A ring in the illustration) in combination with a radial cut ring (C ring in the illustration). These sections are installed with the C ring toward the pressure or cylinder and the A ring away from the pressure or cylinder.

For unusual conditions, or for other reasons, it sometimes is desirable to supply triangular cut or flexible type metal packing rings instead of the tangential cut ring. Rings of either type are assembled into sections with radial cut C rings in the same manner as tangential cut rings.

The patented Fox type ring is an exclusive GARLOCK product and differs in design from all of the conventional metal packing rings. This ring has precision-cut interlocking joints and is not assembled in combination with a radial cut ring.



RADIAL RING COMPLETE SECTION TANGENTIAL RING

Materials—The operating conditions determine the material from which GARLOCK floating type rings are made. Each of these materials is superior in its respective field and has been selected only after complete and exhaustive research and tests have proved it to be suitable for packing usage.

For cast-iron rings a truly non-abrasive, graphitic iron is used. Under normal operating conditions this cast iron will not cut or score the softest commercial steel piston rod.

Bronze rings are supplied from bronzes of different mixtures, each of which has been thoroughly tested in service. The two lead bronzes most commonly used are made to rigid GARLOCK formulae.

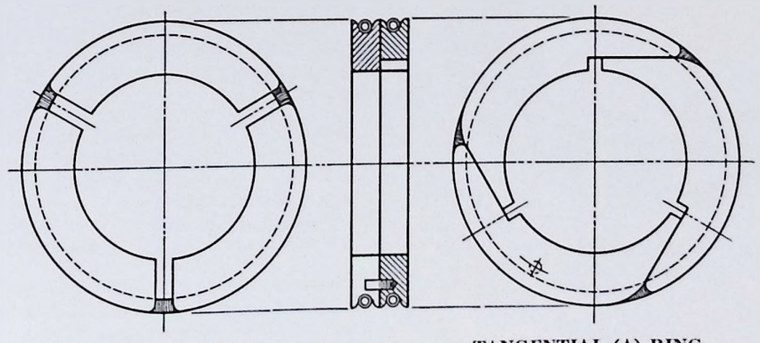
Babbitt, bakelite and carbon are also used in the production of GARLOCK floating type packing rings. These materials are recommended for specific service applications where operating conditions are such that neither cast-iron nor bronze rings are suitable.

Service—GARLOCK floating metal packings are made in a variety of assemblies designed to take care of the entire range of pressures from the lowest to the highest. Packings of this type are intended primarily for sealing steam and gases; they are not used generally against liquids.

Standard Assemblies—For many installations one of the several standard GARLOCK assemblies is applicable. Such assemblies are divided broadly into two groups—those with split cases and those with solid cases.

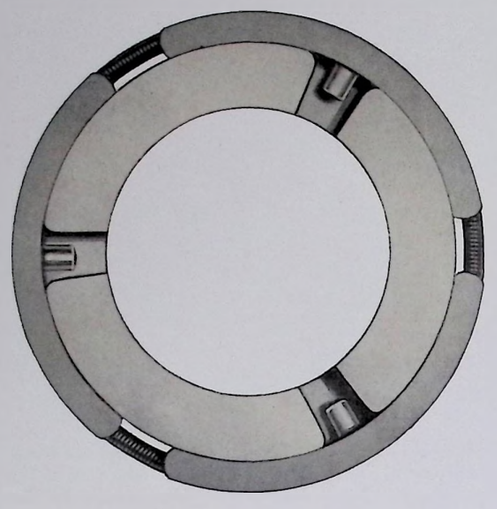
Split case packings can be assembled around the rod without disconnecting it. Some of the most common split case packings are GARLOCK 805, GARLOCK 806, GARLOCK 861, GARLOCK 808 and GARLOCK 809.

Solid case packings are supplied over the end of the rod. It is necessary, therefore, to disconnect the piston rod when making installations of packings of this

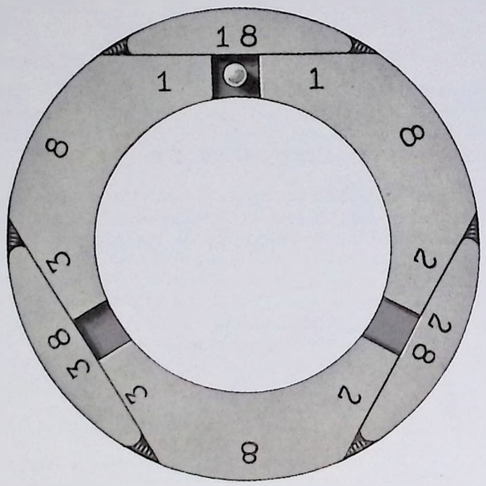


RADIAL (C) RING TANGENTIAL (A) RING

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GARLOCK FLEXIBLE METAL PACKING RING



GARLOCK TRIANGULAR CUT PACKING RING

type. GARLOCK 821, GARLOCK 835 and GARLOCK 875 are typical solid case assemblies.

Some assemblies, such as GARLOCK 810 and GARLOCK 860, can be supplied either with split or solid case as required.

Application—GARLOCK Metal Packings can be manufactured to fit any equipment providing sufficient space for a satisfactory installation is available and the rod diameter is not too small. When necessary to do so, floating metal packings can be installed in packing spaces as small as 5/8" but for a properly engineered application a packing space of 7/8" or more should be provided. Rod diameter should not be less than 1½". The stuffing box depth necessary for a good application depends upon the pressure to be packed.

When the diameter or depth of the stuffing box is insufficient to permit the installation of a set of metal packing inside of the box, an outside assembly can be designed providing there is sufficient cross-head clearance.

Renewals—When and if it becomes desirable, for any reason, to renew GARLOCK floating metal packings, it seldom is necessary to purchase complete new assemblies. Satisfactory replacement at low cost usually can be accomplished by installing new packing rings in the original case. Before doing so, however, the case should be checked for wear in the ring grooves. If wear has developed the grooves should be re-machined before installing new rings.

Metal Packing Catalog—The complete line of GARLOCK floating metal pressure packings is described in detail in the special GARLOCK Metal Packing Catalog.

In addition to pressure packings for application to piston rods, that catalog also describes other GARLOCK metal packings including:

Garlock Oil Return Metal Packing Rings which are made in several types. These rings remove excess oil from the piston rods of enclosed crankcase type gas engines, air and gas compressors, steam engines and diesel engines, and return such excess oil to the crankcase.

Breaker or Fire-Check Rings which are used as bottom rings (nearest the cylinder) on the power rods of internal combustion engines to protect the pressure packing rings from the excessive heat of the explosions in the cylinder and from the products of combustion resulting from the explosions.

Piston Rings of different types, including the exclusive Fox type rings, made of materials suitable for the intended usage.

FAHRENHEIT AND CENTIGRADE CONVERSION TABLE

Cent.	Fahr.	Cent.	Fahr.	Cent.	Fahr.	Cent.	Fahr.	Cent.	Fahr.	Cent.	Fahr.	Cent.	Fahr.	Cent.	Fahr.
0	32	205	401	405	761	605	1121	805	1481	1005	1841	1205	2201	1405	2561
5	41	210	410	410	770	610	1130	810	1490	1010	1850	1210	2210	1410	2570
10	50	215	419	415	779	615	1139	815	1499	1015	1859	1215	2219	1415	2579
15	59	220	428	420	788	620	1148	820	1508	1020	1868	1220	2228	1420	2588
20	68	225	437	425	797	625	1157	825	1517	1025	1877	1225	2237	1425	2597
25	77	230	446	430	806	630	1166	830	1526	1030	1886	1230	2246	1430	2606
30	86	235	455	435	815	635	1175	835	1535	1035	1895	1235	2255	1435	2615
35	95	240	464	440	824	640	1184	840	1544	1040	1904	1240	2264	1440	2624
40	104	245	473	445	833	645	1193	845	1553	1045	1913	1245	2273	1445	2633
45	113	250	482	450	842	650	1202	850	1562	1050	1922	1250	2282	1450	2642
50	122	255	491	455	851	655	1211	855	1571	1055	1931	1255	2291	1455	2651
55	131	260	500	460	860	660	1220	860	1580	1060	1940	1260	2300	1460	2660
60	140	265	509	465	869	665	1229	865	1589	1065	1949	1265	2309	1465	2669
65	149	270	518	470	878	670	1238	870	1598	1070	1958	1270	2318	1470	2678
70	158	275	527	475	887	675	1247	875	1607	1075	1967	1275	2327	1475	2687
75	167	280	536	480	896	680	1256	880	1616	1080	1976	1280	2336	1480	2696
80	176	285	545	485	905	685	1265	885	1625	1085	1985	1285	2345	1485	2705
85	185	290	554	490	914	690	1274	890	1634	1090	1994	1290	2354	1490	2714
90	194	295	563	495	923	695	1283	895	1643	1095	2003	1295	2363	1495	2723
95	203	300	572	500	932	700	1292	900	1652	1100	2012	1300	2372	1500	2732
100	212	305	581	505	941	705	1301	905	1661	1105	2021	1305	2381	1505	2741
105	221	310	590	510	950	710	1310	910	1670	1110	2030	1310	2390	1510	2750
110	230	315	599	515	959	715	1319	915	1679	1115	2039	1315	2399	1515	2759
115	239	320	608	520	968	720	1328	920	1688	1120	2048	1320	2408	1520	2768
120	248	325	617	525	977	725	1337	925	1697	1125	2057	1325	2417	1525	2777
125	257	330	626	530	986	730	1346	930	1706	1130	2066	1330	2426	1530	2786
130	266	335	635	535	995	735	1355	935	1715	1135	2075	1335	2435	1535	2795
135	275	340	644	540	1004	740	1364	940	1724	1140	2084	1340	2444	1540	2804
140	284	345	653	545	1013	745	1373	945	1733	1145	2093	1345	2453	1545	2813
145	293	350	662	550	1022	750	1382	950	1742	1150	2102	1350	2462	1550	2822
150	302	355	671	555	1031	755	1391	955	1751	1155	2111	1355	2471	1555	2831
155	311	360	680	560	1040	760	1400	960	1760	1160	2120	1360	2480	1560	2840
160	320	365	689	565	1049	765	1409	965	1769	1165	2129	1365	2489	1565	2849
165	329	370	698	570	1058	770	1418	970	1778	1170	2138	1370	2498	1570	2858
170	338	375	707	575	1067	775	1427	975	1787	1175	2147	1375	2507	1575	2867
175	347	380	716	580	1076	780	1436	980	1796	1180	2156	1380	2516	1580	2876
180	356	385	725	585	1085	785	1445	985	1805	1185	2165	1385	2525	1585	2885
185	365	390	734	590	1094	790	1454	990	1814	1190	2174	1390	2534	1590	2894
190	374	395	743	595	1103	795	1463	995	1823	1195	2183	1395	2543	1595	2903
195	383	400	752	600	1112	800	1472	1000	1832	1200	2192	1400	2552	1600	2912
200	392														

METRIC CONVERSION TABLE

Millimeters × .03937 = inches.
Millimeters ÷ 25.4 = inches.
Centimeters × .3937 = inches.
Centimeters ÷ 2.54 = inches.
Meters × 39.37 = inches (Act of Congress).
Meters × 3.281 = feet.
Meters × 1.094 = yards.
Kilometers × .621 = miles.
Kilometers ÷ 1.6093 = miles.
Kilometers × 3280.8693 = feet.
Square Millimeters × .00155 = sq. inches.
Square Millimeters ÷ 645.1 = sq. inches.
Square Centimeters × .155 = sq. inches.
Square Centimeters ÷ 6.451 = sq. inches.
Square Meters × 10.764 = sq. feet.
Square Kilometers × 247.1 = acres.
Hectare × 2.471 = acres.
Cubic Centimeters ÷ 16.383 = cubic inches.

Cubic Centimeters ÷ 3.69 = fl. drams (U. S. P.).
Cubic Centimeters ÷ 29.57 = fluid ounces (U.S.P.).
Cubic Meters × 35.315 = cubic feet.
Cubic Meters × 1.308 = cubic yards.
Cubic Meters × 264.2 = gallons (231. cubic inches).
Liters × 61.022 = cu. in. (Act of Congress).
Liters × 33.84 = fluid ounces (U. S. P.)
Liters × .2642 = gallons (231. cu. in.).
Liters ÷ 3.78 = gallons (231. cu. in.).
Liters ÷ 28.316 = cubic feet.
Hectoliters × 3.531 = cubic feet.
Hectoliters × 2.84 = bushels (2150.42 cu. in.).
Hectoliters × .131 = cubic yards.
Hectoliters ÷ 26.42 = gallons (231. cu. in.).
Grams × 15.432 = grains (Act of Congress).
Grams ÷ 981. = dynes.
Grams (water) ÷ 29.57 = fluid ounces.
Grams ÷ 28.35 = ounces avoirdupois.

Grams per Cu. Cent. ÷ 27.7 = lbs. per cubic inch.
Joule × .7373 = foot pounds.
Kilograms × 2.2046 = pounds.
Kilograms × 35.3 = oz. avoirdupois.
Kilograms ÷ 907.2 = tons (2,000 lbs.).
Kilograms per Sq. Cent. × 14.223 = lbs. per sq. in.
Kilogram-meters × 7.233 = foot lbs.
Kilograms per Meter × .672 = lbs. per foot.
Kilograms per Cu. Meter × .062 = lbs. per cubic foot.
Tonneau × 1.1023 = tons (2,000 lbs.).
Kilowatts × 1.34 = Horse Power.
Watts ÷ 746. = Horse Power.
Watts × .7373 = foot pounds per second.
Calorie × 3.968 = B.t.u.
Cheval vapeur ÷ .9863 = Horse Power.
(Centigrade × 1.8) + 32 = degrees Fahr.
Gravity Paris = 980.94 centimeters per sec.

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TABLE OF DECIMAL EQUIVALENTS
OF MILLIMETERS AND FRACTIONS OF MILLIMETERS

mm.	Inches	mm.	Inches	mm.	Inches	mm.	Inches	mm.	Inches
1/50	= .00079	31/50	= .02441	12	= .47244	42	= 1.65354	72	= 2.83464
2/50	= .00157	32/50	= .02520	13	= .51181	43	= 1.69291	73	= 2.87401
3/50	= .00236	33/50	= .02598	14	= .55118	44	= 1.73228	74	= 2.91338
4/50	= .00315	34/50	= .02677	15	= .59055	45	= 1.77165	75	= 2.95275
5/50	= .00394	35/50	= .02756	16	= .62992	46	= 1.81102	76	= 2.99212
6/50	= .00472	36/50	= .02835	17	= .66929	47	= 1.85039	77	= 3.03149
7/50	= .00551	37/50	= .02913	18	= .70866	48	= 1.88976	78	= 3.07086
8/50	= .00630	38/50	= .02992	19	= .74803	49	= 1.92913	79	= 3.11023
9/50	= .00709	39/50	= .03071	20	= .78740	50	= 1.96850	80	= 3.14960
10/50	= .00787	40/50	= .03150	21	= .82677	51	= 2.00787	81	= 3.18897
11/50	= .00866	41/50	= .03228	22	= .86614	52	= 2.04724	82	= 3.22834
12/50	= .00945	42/50	= .03307	23	= .90551	53	= 2.08661	83	= 3.26771
13/50	= .01024	43/50	= .03386	24	= .94488	54	= 2.12598	84	= 3.30708
14/50	= .01102	44/50	= .03465	25	= .98425	55	= 2.16535	85	= 3.34645
15/50	= .01181	45/50	= .03543	26	= 1.02362	56	= 2.20472	86	= 3.38582
16/50	= .01260	46/50	= .03622	27	= 1.06299	57	= 2.24409	87	= 3.42519
17/50	= .01339	47/50	= .03701	28	= 1.10236	58	= 2.28346	88	= 3.46456
18/50	= .01417	48/50	= .03780	29	= 1.14173	59	= 2.32283	89	= 3.50393
19/50	= .01496	49/50	= .03858	30	= 1.18110	60	= 2.36220	90	= 3.54330
20/50	= .01575	1	= .03937	31	= 1.22047	61	= 2.40157	91	= 3.58267
21/50	= .01654	2	= .07874	32	= 1.25984	62	= 2.44094	92	= 3.62204
22/50	= .01732	3	= .11811	33	= 1.29921	63	= 2.48031	93	= 3.66141
23/50	= .01811	4	= .15748	34	= 1.33858	64	= 2.51968	94	= 3.70078
24/50	= .01890	5	= .19685	35	= 1.37795	65	= 2.55905	95	= 3.74015
25/50	= .01969	6	= .23622	36	= 1.41732	66	= 2.59842	96	= 3.77952
26/50	= .02047	7	= .27559	37	= 1.45669	67	= 2.63779	97	= 3.81889
27/50	= .02126	8	= .31496	38	= 1.49606	68	= 2.67716	98	= 3.85826
28/50	= .02205	9	= .35433	39	= 1.53543	69	= 2.71653	99	= 3.89763
29/50	= .02283	10	= .39370	40	= 1.57480	70	= 2.75590	100	= 3.93700
30/50	= .02362	11	= .43307	41	= 1.61417	71	= 2.79527		

10 mm. = 1 Centimeter = 0.3937 inches
10 cm. = 1 Decimeter = 3.937 inches
10 dm. = 1 Meter = 39.37 inches
25.4 mm. = 1 English inch

TABLE OF DECIMAL EQUIVALENTS
OF 8THS, 16THS, 32DS, AND 64THS OF AN INCH

8ths
1/8 = .125
2/8 = .250
3/8 = .375
4/8 = .500
5/8 = .625
6/8 = .750
7/8 = .875

16ths
1/16 = .0625
3/16 = .1875
5/16 = .3125
7/16 = .4375
9/16 = .5625
11/16 = .6875
13/16 = .8125
15/16 = .9375

32ds
1/32 = .03125
3/32 = .09375
5/32 = .15625
7/32 = .21875
9/32 = .28125
11/32 = .34375
13/32 = .40625
15/32 = .46875
17/32 = .53125
19/32 = .59375
21/32 = .65625
23/32 = .71875
25/32 = .78125
27/32 = .84375
29/32 = .90625
31/32 = .96875

64ths
1/64 = .015625
3/64 = .046875
5/64 = .078125
7/64 = .109375
9/64 = .140625
11/64 = .171875
13/64 = .203125
15/64 = .234375
17/64 = .265625
19/64 = .296875
21/64 = .328125
23/64 = .359375
25/64 = .390625
27/64 = .421875
29/64 = .453125
31/64 = .484375
33/64 = .515625
35/64 = .546875
37/64 = .578125
39/64 = .609375
41/64 = .640625
43/64 = .671875
45/64 = .703125
47/64 = .734375
49/64 = .765625
51/64 = .796875
53/64 = .828125
55/64 = .859375
57/64 = .890625
59/64 = .921875
61/64 = .953125
63/64 = .984375

GARLOCK THE STANDARD PACKING OF THE WORLD

CIRCUMFERENCES AND AREAS OF CIRCLES

Diam.	Circ.	Area	Diam.	Circ.	Area	Diam.	Circ.	Area	Diam.	Circ.	Area	Diam.	Circ.	Area	Diam.	Circ.	Area
1/32	.0981	.00076	7	21.99	38.484	15	47.12	176.71	23	72.25	415.47	31	97.38	754.76	39	122.5	1194.5
1/16	.1963	.00306	1/8	22.38	39.871	1/8	47.51	179.67	1/8	72.64	420.00	1/8	97.78	760.86	1/8	122.9	1202.2
3/32	.2945	.01227	1/4	22.77	41.282	1/4	47.90	182.72	1/4	73.04	424.55	1/4	98.17	766.99	1/4	123.3	1209.9
1/8	.5890	.02761	3/8	23.16	42.718	3/8	48.30	185.66	3/8	73.43	429.13	3/8	98.56	773.14	3/8	123.7	1217.6
1/4	.7854	.04908	1/2	23.56	44.178	1/2	48.69	188.69	1/2	73.82	433.73	1/2	98.96	779.31	1/2	124.0	1225.4
5/32	.9817	.07669	5/8	23.95	45.663	5/8	49.08	191.74	5/8	74.21	438.30	5/8	99.35	785.51	5/8	124.4	1233.1
3/8	1.178	.1104	3/4	24.34	47.173	3/4	49.48	194.82	3/4	74.61	443.01	3/4	99.74	791.73	3/4	124.8	1240.9
7/32	1.374	.1503	7/8	24.74	48.707	7/8	49.87	197.73	7/8	75.00	447.69	7/8	100.1	797.97	7/8	125.2	1248.7
1/2	1.570	.1963	8	25.13	50.265	16	50.26	201.06	24	75.39	452.39	32	100.5	804.24	40	125.6	1256.6
9/32	1.767	.2485	1/8	25.52	51.848	1/8	50.65	201.21	1/8	75.79	457.11	1/8	100.9	810.45	1/8	126.0	1264.5
5/8	1.963	.3097	1/4	25.91	53.456	1/4	51.05	207.39	1/4	76.18	461.86	1/4	101.3	816.86	1/4	126.4	1272.3
11/32	2.159	.3712	3/8	26.31	55.088	3/8	51.44	210.59	3/8	76.57	466.63	3/8	101.7	823.21	3/8	126.8	1280.3
3/4	2.356	.4417	1/2	26.70	56.745	1/2	51.83	213.82	1/2	76.96	471.43	1/2	102.1	829.57	1/2	127.2	1288.2
13/32	2.552	.5184	5/8	27.09	58.426	5/8	52.22	217.07	5/8	77.36	476.25	5/8	102.4	835.97	5/8	127.6	1291.2
7/8	2.748	.6013	3/4	27.47	60.132	3/4	52.62	220.35	3/4	77.75	481.10	3/4	102.8	842.39	3/4	128.0	1304.2
15/32	2.945	.6902	7/8	27.88	61.862	7/8	53.01	223.65	7/8	78.14	485.97	7/8	103.2	848.83	7/8	128.4	1312.2
1	3.141	.7854	9	28.27	63.617	17	53.40	226.98	25	78.54	490.87	33	103.6	855.30	41	128.8	1320.2
1/8	3.534	.9940	1/8	28.66	65.396	1/8	53.79	230.33	1/8	78.93	495.79	1/8	104.0	861.79	1/8	129.1	1328.3
1/4	3.927	1.227	1/4	29.05	67.200	1/4	54.19	233.70	1/4	79.32	500.74	1/4	104.4	868.30	1/4	129.5	1336.4
3/8	4.319	1.484	3/8	29.45	69.029	3/8	54.58	237.10	3/8	79.71	505.71	3/8	104.8	874.88	3/8	129.9	1344.5
1/2	4.712	1.767	1/2	29.84	70.882	1/2	54.97	240.52	1/2	80.10	510.70	1/2	105.2	881.41	1/2	130.3	1352.6
5/8	5.105	2.073	5/8	30.23	72.759	5/8	55.37	243.97	5/8	80.50	515.72	5/8	105.6	888.00	5/8	130.7	1360.8
3/4	5.497	2.405	3/4	30.63	74.662	3/4	55.76	247.45	3/4	80.89	520.70	3/4	106.0	894.61	3/4	131.1	1369.0
7/8	5.890	2.761	7/8	31.02	76.588	7/8	56.16	250.94	7/8	81.28	525.83	7/8	106.4	901.25	7/8	131.5	1377.2
2	6.283	3.141	10	31.41	78.539	18	56.54	254.46	26	81.68	530.93	34	106.8	907.92	42	131.9	1385.4
1/8	6.675	3.546	1/8	31.80	80.515	1/8	56.94	258.01	1/8	82.07	536.04	1/8	107.2	914.61	1/8	132.3	1393.7
1/4	7.068	3.976	1/4	32.20	82.516	1/4	57.33	261.58	1/4	82.46	541.18	1/4	107.5	921.32	1/4	132.7	1401.9
3/8	7.461	4.430	3/8	32.59	84.540	3/8	57.72	265.18	3/8	82.85	546.35	3/8	107.9	928.06	3/8	133.1	1410.2
1/2	7.854	4.908	1/2	32.98	86.590	1/2	58.11	268.80	1/2	83.25	551.54	1/2	108.3	934.82	1/2	133.5	1418.6
5/8	8.246	5.411	5/8	33.37	88.664	5/8	58.51	272.44	5/8	83.64	556.76	5/8	108.7	941.60	5/8	133.9	1426.9
3/4	8.639	5.939	3/4	33.77	90.762	3/4	58.90	276.11	3/4	84.03	562.00	3/4	109.1	948.41	3/4	134.3	1435.3
7/8	9.032	6.491	7/8	34.16	92.885	7/8	59.29	279.81	7/8	84.43	567.26	7/8	109.5	955.25	7/8	134.6	1443.7
3	9.424	7.068	11	34.55	95.033	19	59.69	283.52	27	84.82	572.55	35	109.9	962.11	43	135.0	1452.2
1/8	9.817	7.669	1/8	34.95	97.205	1/8	60.08	287.27	1/8	85.21	577.87	1/8	110.3	968.99	1/8	135.4	1460.6
1/4	10.21	8.295	1/4	35.34	99.402	1/4	60.47	291.03	1/4	85.60	583.20	1/4	110.7	975.90	1/4	135.8	1469.1
3/8	10.60	8.946	3/8	35.73	101.62	3/8	60.86	294.83	3/8	86.00	588.57	3/8	111.1	982.84	3/8	136.2	1477.6
1/2	10.99	9.621	1/2	36.12	103.86	1/2	61.26	298.64	1/2	86.39	593.95	1/2	111.5	989.80	1/2	136.6	1486.1
5/8	11.38	10.320	5/8	36.52	106.13	5/8	61.65	302.48	5/8	86.78	599.37	5/8	111.9	996.78	5/8	137.0	1494.7
3/4	11.78	11.044	3/4	36.91	108.43	3/4	62.04	306.35	3/4	87.17	604.80	3/4	112.3	1003.7	3/4	137.4	1503.3
7/8	12.17	11.793	7/8	37.30	110.75	7/8	62.43	310.24	7/8	87.57	610.26	7/8	112.7	1010.8	7/8	137.8	1511.9
4	12.56	12.566	12	37.69	113.00	20	62.83	314.16	28	87.96	615.75	36	113.0	1017.8	44	138.2	1520.5
1/8	12.95	13.364	1/8	38.09	115.46	1/8	63.22	318.09	1/8	88.35	621.26	1/8	113.4	1024.9	1/8	138.6	1529.1
1/4	13.35	14.186	1/4	38.48	117.85	1/4	63.61	322.06	1/4	88.75	626.79	1/4	113.8	1032.0	1/4	139.0	1537.8
3/8	13.74	15.033	3/8	38.87	120.27	3/8	64.01	326.05	3/8	89.14	632.35	3/8	114.2	1039.1	3/8	139.4	1546.5
1/2	14.13	15.904	1/2	39.27	122.71	1/2	64.40	330.06	1/2	89.53	637.94	1/2	114.6	1049.3	1/2	139.8	1555.2
5/8	14.52	16.800	5/8	39.66	125.18	5/8	64.79	334.10	5/8	89.92	643.54	5/8	115.0	1053.5	5/8	140.1	1564.0
3/4	14.92	17.720	3/4	40.05	127.67	3/4	65.18	338.16	3/4	90.32	649.18	3/4	115.4	1060.7	3/4	140.5	1572.8
7/8	15.31	18.665	7/8	40.44	130.19	7/8	65.58	342.25	7/8	90.71	654.83	7/8	115.8	1067.9	7/8	140.9	1581.6
5	15.70	19.635	13	40.84	132.73	21	65.97	346.36	29	91.10	660.52	37	116.2	1075.2	45	141.3	1590.4
1/8	16.10	20.629	1/8	41.23	135.29	1/8	66.36	350.49	1/8	91.49	666.22	1/8	116.6	1082.4	1/8	141.7	1599.2
1/4	16.49	21.647	1/4	41.62	137.88	1/4	66.75	354.65	1/4	91.89	671.95	1/4	117.0	1089.7	1/4	142.1	1608.1
3/8	16.88	22.690	3/8	42.01	140.50	3/8	67.15	358.84	3/8	92.28	677.71	3/8	117.4	1097.1	3/8	142.5	1617.0
1/2	17.27	23.758	1/2	42.41	143.13	1/2	67.54	363.05	1/2	92.67	683.49	1/2	117.8	1104.4	1/2	142.9	1625.9
5/8	17.67	24.850	5/8	42.80	145.80	5/8	67.93	367.28	5/8	93.06	689.29	5/8	118.2	1111.8	5/8	143.3	1634.9
3/4	18.06	25.967	3/4	43.19	148.48	3/4	68.32	371.54	3/4	93.46	695.12	3/4	118.6	1119.2	3/4	143.7	1643.8
7/8	18.45	27.108	7/8	43.58	151.20	7/8	68.72	375.82	7/8	93.85	700.98	7/8	118.9	1126.6	7/8	144.1	1652.8
6	18.84	28.274	14	43.98	153.93	22	69.11	380.13	30	94.24	706.86	38	119.3	1134.1	46	144.5	1661.9
1/8	19.24	29.464	1/8	44.37	156.69	1/8	69.50	384.46	1/8	94.64	712.76	1/8	119.7	1141.5	1/8	144.9	1670.9
1/4	19.63	30.679	1/4	44.76	159.48	1/4	69.90	388.82	1/4	95.03	718.69	1/4	120.1	1149.0	1/4	145.2	1680.0
3/8	20.02	31.919	3/8	45.16	162.29	3/8	70.29	393.20	3/8	95.42	724.64	3/8	120.5	1156.6	3/8	145.6	1689.1
1/2	20.42	33.183	1/2	45.55	165.13	1/2	70.68	397.60	1/2	95.81	730.61	1/2	120.9	1164.1	1/2	146.0	1698.2
5/8	20.81	34.471	5/8	45.94	167.98	5/8	71.07	402.03	5/8	96.21	736.61	5/8	121.3	1171.7	5/8	146.4	1707.3
3/4	21.20	35.784	3/4	46.33	170.87	3/4	71.47	406.49	3/4	96.60	742.64	3/4	121.7	1179.3	3/4	146.8	1716.5
7/8	21.57	37.122	7/8	46.73	173.78	7/8	71.86	410.97	7/8	96.99	748.69	7/8	122.1	1186.9	7/8	147.2	1725.7

THE STANDARD PACKING OF THE WORLD GARLOCK

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CIRCUMFERENCE AND AREAS OF CIRCLES—Continued

Diam.	Circ.	Area	Diam.	Circ.	Area	Diam.	Circ.	Area	Diam.	Circ.	Area	Diam.	Circ.	Area	Diam.	Circ.	Area
47	147.6	1734.9	54	169.6	2290.2	61	191.6	2922.4	68	213.6	3631.6	75	235.6	4417.8	88	276.4	6082.1
1/8	148.0	1744.1	1/8	170.0	2300.8	1/8	192.0	2934.4	1/8	214.0	3645.0	1/4	236.4	4447.3	1/4	277.2	6116.7
1/4	148.4	1753.4	1/4	170.4	2311.4	1/4	192.4	2940.4	1/4	214.4	3658.4	1/2	237.1	4476.9	1/2	278.0	6151.4
3/8	148.8	1762.7	3/8	170.8	2322.1	3/8	192.8	2958.5	3/8	214.8	3671.8	3/4	237.9	4506.6	3/4	278.8	6186.2
1/2	149.2	1772.0	1/2	171.2	2332.8	1/2	193.2	2970.5	1/2	215.1	3685.2						
5/8	149.6	1781.3	5/8	171.6	2343.5	5/8	193.6	2982.6	5/8	215.5	3698.7	76	238.7	4536.4	89	279.6	6221.1
3/4	150.0	1790.7	3/4	172.0	2354.2	3/4	193.9	2994.6	3/4	215.9	3712.2	1/4	239.5	4566.3	1/4	280.3	6256.1
7/8	150.4	1800.1	7/8	172.3	2365.0	7/8	194.3	3006.9	7/8	216.3	3725.7	1/2	240.3	4596.3	1/2	281.1	6291.2
												3/4	241.1	4626.4	3/4	281.9	6326.4
48	150.7	1809.5	55	172.7	2375.8	62	194.7	3019.0	69	216.7	3739.2						
1/8	151.1	1818.9	1/8	173.1	2386.6	1/8	195.1	3031.2	1/8	217.1	3752.8	77	241.9	4656.6	90	282.7	6361.7
1/4	151.5	1828.4	1/4	173.5	2397.4	1/4	195.5	3043.4	1/4	217.5	3766.4	1/4	242.6	4686.9	1/4	283.5	6397.1
3/8	151.9	1837.9	3/8	173.9	2408.3	3/8	195.9	3055.7	3/8	217.9	3780.0	1/2	243.4	4717.3	1/2	284.3	6432.6
1/2	152.3	1847.4	1/2	174.3	2419.2	1/2	196.3	3067.9	1/2	218.3	3793.6	3/4	244.2	4747.7	3/4	285.1	6468.2
5/8	152.7	1856.9	5/8	174.7	2430.1	5/8	196.7	3080.2	5/8	218.7	3807.3						
3/4	153.1	1866.5	3/4	175.1	2441.0	3/4	197.1	3092.5	3/4	219.1	3821.0	78	245.0	4778.3	91	285.8	6503.8
7/8	153.5	1876.1	7/8	175.5	2452.0	7/8	197.5	3104.8	7/8	219.5	3834.7	1/4	245.8	4809.0	1/4	286.6	6539.6
												1/2	246.6	4839.8	1/2	287.4	6575.5
49	153.9	1885.7	56	175.9	2463.0	63	197.9	3117.2	70	219.9	3848.4	3/4	247.4	4870.7	3/4	288.2	6611.5
1/8	154.3	1895.3	1/8	176.3	2474.0	1/8	198.3	3129.6	1/4	220.3	3862.2						
1/4	154.7	1905.0	1/4	176.7	2485.0	1/4	198.7	3142.0	1/4	220.6	3875.9	79	248.1	4901.6	92	289.0	6647.0
3/8	155.1	1914.7	3/8	177.1	2496.1	3/8	199.0	3154.4	3/8	221.0	3889.8	1/4	248.9	4932.7	1/4	289.8	6683.8
1/2	155.5	1924.4	1/2	177.5	2507.1	1/2	199.4	3166.9	1/2	221.4	3903.6	1/2	249.7	4963.9	1/2	290.5	6720.0
5/8	155.9	1934.1	5/8	177.8	2518.2	5/8	199.8	3179.4	5/8	221.8	3917.4	3/4	250.5	4995.1	3/4	291.3	6756.4
3/4	156.2	1943.9	3/4	178.2	2529.4	3/4	200.2	3191.9	3/4	222.2	3931.3						
7/8	156.6	1953.6	7/8	178.6	2540.5	7/8	200.6	3204.4	7/8	222.6	3945.2	80	251.3	5026.5	93	292.1	6792.9
												1/4	252.1	5058.0	1/4	292.9	6829.4
50	157.0	1963.5	57	179.0	2551.7	64	201.0	3216.9	71	223.0	3959.2	1/2	252.8	5089.5	1/2	293.7	6866.1
1/8	157.4	1973.3	1/8	179.4	2562.9	1/8	201.4	3229.5	1/8	223.4	3973.1	3/4	253.6	5121.2	3/4	294.5	6902.9
1/4	157.8	1983.1	1/4	179.8	2574.1	1/4	201.8	3242.1	1/4	223.8	3987.1						
3/8	158.2	1993.0	3/8	180.2	2585.4	3/8	202.2	3254.8	3/8	224.2	4001.1	81	254.4	5153.0	94	295.3	6939.7
1/2	158.6	2002.9	1/2	180.6	2596.7	1/2	202.6	3267.4	1/2	224.6	4015.1	1/4	255.2	5184.8	1/4	296.0	6976.7
5/8	159.0	2012.8	5/8	181.0	2608.0	5/8	203.0	3280.1	5/8	225.0	4029.2	1/2	256.0	5216.8	1/2	296.8	7013.8
3/4	159.4	2022.8	3/4	181.4	2619.3	3/4	203.4	3292.8	3/4	225.4	4043.2	3/4	256.8	5248.8	3/4	297.6	7050.9
7/8	159.8	2032.8	7/8	181.8	2630.7	7/8	203.8	3305.5	7/8	225.8	4057.3						
												82	257.6	5281.0	95	298.4	7088.2
51	160.2	2042.8	58	182.2	2042.0	65	204.2	3318.3	72	226.1	4071.5	1/4	258.3	5313.2	1/4	299.2	7125.5
1/8	160.6	2052.8	1/8	182.6	2653.4	1/8	204.5	3331.0	1/8	226.5	4085.6	1/2	259.1	5345.6	1/2	300.0	7163.0
1/4	161.0	2062.9	1/4	182.9	2664.9	1/4	204.9	3343.8	1/4	226.9	4099.8	3/4	259.9	5378.0	3/4	300.8	7200.5
3/8	161.3	2072.9	3/8	183.3	2676.3	3/8	205.3	3356.7	3/8	227.3	4114.0						
1/2	161.7	2083.0	1/2	183.7	2687.8	1/2	205.7	3369.5	1/2	227.7	4128.2	83	260.7	5410.6	96	301.5	7238.2
5/8	162.1	2093.2	5/8	184.1	2699.3	5/8	206.1	3382.4	5/8	228.1	4142.5	1/4	261.5	5443.2	1/4	302.3	7275.9
3/4	162.5	2103.3	3/4	184.5	2710.8	3/4	206.5	3395.3	3/4	228.5	4156.7	1/2	262.3	5476.0	1/2	303.1	7313.8
7/8	162.9	2113.5	7/8	184.9	2722.4	7/8	206.9	3408.2	7/8	228.9	4171.0	3/4	263.1	5508.8	3/4	303.9	7341.7
52	163.3	2123.7	59	185.3	2733.9	66	207.3	3421.2	73	229.3	4185.3	84	263.8	5541.7	97	304.7	7389.8
1/8	163.7	2133.9	1/8	185.7	2745.5	1/8	207.7	3434.1	1/8	229.7	4199.7	1/4	264.6	5574.8	1/4	305.5	7427.9
1/4	164.1	2144.1	1/4	186.1	2757.1	1/4	208.1	3447.1	1/4	230.1	4214.1	1/2	265.4	5607.9	1/2	306.3	7466.2
3/8	164.5	2154.4	3/8	186.5	2768.8	3/8	208.5	3460.1	3/8	230.5	4228.5	3/4	266.2	5641.1	3/4	307.0	7504.4
1/2	164.9	2164.7	1/2	186.9	2780.5	1/2	208.9	3473.2	1/2	230.9	4242.9						
5/8	165.3	2175.0	5/8	187.3	2792.2	5/8	209.3	3486.3	5/8	231.3	4257.3	85	267.0	5674.5	98	307.8	7542.9
3/4	165.7	2185.4	3/4	187.7	2803.9	3/4	209.7	3499.3	3/4	231.6	4271.8	1/4	267.8	5707.9	1/4	308.6	7581.5
7/8	166.1	2195.7	7/8	188.1	2815.6	7/8	210.0	3512.5	7/8	232.0	4286.3	1/2	268.6	5741.4	1/2	309.4	7620.1
												3/4	269.3	5775.0	3/4	310.2	7658.8
53	166.5	2206.1	60	188.4	2827.4	67	210.4	3525.6	74	232.4	4300.8	86	270.1	5808.8	99	311.0	7697.7
1/8	166.8	2216.6	1/8	188.8	2839.2	1/8	210.9	3538.8	1/8	232.8	4315.3	1/4	270.9	5842.0	1/4	311.8	7736.6
1/4	167.2	2227.0	1/4	189.2	2851.0	1/4	211.2	3552.0	1/4	233.2	4329.9	1/2	271.7	5876.5	1/2	312.5	7775.6
3/8	167.6	2237.5	3/8	189.6	2862.8	3/8	211.6	3565.2	3/8	233.6	4344.5	3/4	272.5	5910.5	3/4	313.3	7814.7
1/2	168.0	2248.0	1/2	190.0	2874.7	1/2	212.0	3578.4	1/2	234.0	4359.1						
5/8	168.4	2258.5	5/8	190.4	2886.6	5/8	212.4	3591.7	5/8	234.4	4373.8	87	273.3	5944.6	100	314.1	7853.0
3/4	168.8	2269.0	3/4	190.8	2898.5	3/4	212.8	3605.0	3/4	234.8	4388.4	1/4	274.1	5978.9	1/4	314.9	7893.3
7/8	169.2	2279.6	7/8	191.2	2910.5	7/8	213.2	3618.3	7/8	235.2	4403.1	1/2	274.8	6013.2	1/2	315.7	7932.7
												3/4	275.6	6047.6	3/4	316.4	7972.2

STEAM TABLE

Gauge Press. Lbs.	Temp. Deg. F.	Gauge Press. Lbs.	Temp. Deg. F.	Gauge Press. Lbs.	Temp. Deg. F.	Gauge Press. Lbs.	Temp. Deg. F.	Gauge Press. Lbs.	Temp. Deg. F.	Gauge Press. Lbs.	Temp. Deg. F.
5	228	39	285	72	317	110	344	176	378	241	403
6	230	40	287	73	318	112	345	178	378	243	403
7	233	41	288	74	319	114	346	180	379	245	404
8	235	42	289	75	320	116	348	182	380	247	405
9	237	43	290	76	321	118	349	184	381	249	405
10	240	44	291	77	321	120	350	186	382	251	406
11	242	45	292	78	322	122	351	188	383	253	407
12	244	46	293	79	323	124	352	190	384	255	407
13	246	47	294	80	324	126	353	192	384	257	408
14	248	48	295	81	324	128	354	194	385	259	409
15	250	49	297	82	325	130	355	196	386	261	409
16	252	50	298	83	326	132	356	198	387	263	410
17	254	51	299	84	327	134	357	200	388	265	411
18	255	52	300	85	327	136	359	202	388	267	411
19	257	53	301	86	328	138	360	204	389	269	412
20	259	54	302	87	329	140	361	206	390	271	413
21	261	55	302	88	330	142	362	208	391	273	413
22	262	56	303	89	330	144	363	210	391	275	414
23	264	57	304	90	331	146	364	212	392	277	415
24	265	58	305	91	332	148	365	214	393	279	415
25	267	59	306	92	332	150	366	216	394	281	416
26	268	60	307	93	333	152	367	218	394	283	416
27	270	61	308	94	334	154	368	220	395	285	417
28	271	62	309	95	334	156	368	222	396	295	420
29	273	63	310	96	335	158	369	224	397	305	423
30	274	64	311	97	336	160	370	226	397	355	437
31	275	65	312	98	336	162	371	228	398	375	442
32	277	66	312	99	337	164	372	230	399	385	444
33	278	67	313	100	338	166	373	232	400	405	449
34	279	68	314	102	339	168	374	234	400	455	460
35	281	69	315	104	340	170	375	235	401	510	472
36	282	70	316	106	341	172	376	237	401	560	481
37	283	71	317	108	343	174	377	239	402	585	486
38	284										

TABLE OF WATER HEADS AND EQUIVALENT PRESSURES

(To estimate any pressure, multiply the head (in feet) by .433. The result is lbs. per square inch.)

Head in Feet	Pressure Lbs. per Sq. In.	Head in Feet	Pressure Lbs. per Sq. In.	Head in Feet	Pressure Lbs. per Sq. In.	Head in Feet	Pressure Lbs. per Sq. In.
5	2.17	80	34.64	275	119.08	700	303.10
10	4.33	90	38.97	300	129.90	750	324.75
15	6.50	100	43.30	350	151.55	800	346.40
20	8.66	125	54.13	400	173.20	850	368.05
30	12.99	150	64.95	450	194.85	900	389.70
40	17.32	175	75.78	500	216.50	950	411.35
50	21.65	200	86.60	550	238.15	1000	433.00
60	25.98	225	97.43	600	259.80	1100	476.30
70	30.31	250	108.25	650	281.45	1200	519.60

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DIMENSIONS OF GASKETS FOR STANDARD AND LOW PRESSURE FLANGES A.S.M.E. 1928 STANDARD

Size of Pipe	Ring Gaskets		Full Faced Gaskets		Size of Pipe	Ring Gaskets		Full Faced Gaskets	
	I. D.	O. D.	I. D.	O. D.		I. D.	O. D.	I. D.	O. D.
¾″	¾″	2⅛″	¾″	3½″	40″	40″	45⅜″	40″	50¾″
1″	1″	2⅝″	1″	4¼″	42″	42″	48″	42″	53″
1¼″	1¼″	3″	1¼″	4⅝″	44″	44″	50⅛″	44″	55¼″
1½″	1½″	3⅜″	1½″	5″	46″	46″	52⅛″	46″	57¼″
2″	2″	4⅛″	2″	6″	48″	48″	54½″	48″	59½″
2½″	2½″	4⅞″	2½″	7″	50″	50″	56½″	50″	61¾″
3″	3″	5⅜″	3″	7½″	52″	52″	58¾″	52″	64″
3½″	3½″	6⅜″	3½″	8½″	54″	54″	61″	54″	66¼″
4″	4″	6⅞″	4″	9″	56″	56″	63¼″	56″	68¾″
4½″	4½″	7″	4½″	9¼″	58″	58″	65½″	58″	71″
5″	5″	7¾″	5″	10″	60″	60″	67½″	60″	73″
6″	6″	8¾″	6″	11″	62″	62″	69⅞″	62″	75¾″
7″	7″	10″	7″	12½″	64″	64″	72⅛	64″	78″
8″	8″	11″	8″	13½″	66″	66″	74⅛″	66″	80″
9″	9″	12½″	9″	15″	68″	68″	76⅜″	68″	82¼″
10″	10″	13⅜″	10″	16″	70″	70″	78⅝″	70″	84½″
12″	12″	16⅛″	12″	19″	72″	72″	80¾″	72″	86½″
14″	14″	17¾″	14″	21″	74″	74″	82⅝″	74″	88½″
15″	15″	19″	15″	22¼″	76″	76″	84⅝″	76″	90¾″
16″	16″	20¼″	16″	23½″	78″	78″	86¾″	78″	93″
18″	18″	21⅝″	18″	25″	80″	80″	89″	80″	95¼″
20″	20″	23⅞″	20″	27½″	82″	82″	91¼″	82″	97½″
22″	22″	26″	22″	29½″	84″	84″	93½″	84″	99¾″
24″	24″	28¼″	24″	32″	86″	86″	95¾″	86″	102″
26″	26″	30½″	26″	34¼″	88″	88″	98″	88″	104¼″
28″	28″	32¾″	28″	36½″	90″	90″	100⅛″	90″	106½″
30″	30″	34¾″	30″	38¾″	92″	92″	102⅜″	92″	108¾″
32″	32″	38″	32″	41¾″	94″	94″	104⅛″	94″	111″
34″	34″	39″	34″	43¾″	96″	96″	106¼″	96″	113¼″
36″	36″	41¼″	36″	46″	98″	98″	108½″	98″	115½″
38″	38″	43⅜″	38″	48¾″	100″	100″	110¾″	100″	117¾″

DIMENSIONS OF GASKETS FOR MEDIUM AND EXTRA HEAVY FLANGES A.S.M.E. 1928 STANDARD

Size of Pipe	Ring Gaskets		Full Faced Gaskets		Size of Pipe	Ring Gaskets		Full Faced Gaskets	
	I. D.	O. D.	I. D.	O. D.		I. D.	O. D.	I. D.	O. D.
1″	1″	2⅞″	1″	4⅞″	16″	16″	21¼″	16″	25½″
1¼″	1¼″	3¼″	1¼″	5¼″	18″	18″	23½″	18″	28″
1½″	1½″	3¾″	1½″	6⅛″	20″	20″	25¾″	20″	30½″
2″	2″	4⅜″	2″	6½″	22″	22″	27¾″	22″	33″
2½″	2½″	5⅛″	2½″	7½″	24″	24″	30½″	24″	36″
3″	3″	5⅞″	3″	8¼″	26″	26″	32⅞″	26″	38¼″
3½″	3½″	6½″	3½″	9″	28″	28″	35⅜″	28″	40¾″
4″	4″	7⅛″	4″	10″	30″	30″	37½″	30″	43″
4½″	4½″	7¾″	4½″	10½″	32″	32″	39⅝″	32″	45¼″
5″	5″	8½″	5″	11″	34″	34″	41⅝″	34″	47½″
6″	6″	9⅞″	6″	12½″	36″	36″	44″	36″	50″
7″	7″	11″	7″	14″	38″	38″	46⅛″	38″	52¼″
8″	8″	12⅛″	8″	15″	40″	40″	48⅜″	40″	54½″
9″	9″	13″	9″	16¼″	42″	42″	50¾″	42″	57″
10″	10″	14¼″	10″	17½″	44″	44″	53″	44″	59¼″
12″	12″	16⅝″	12″	20½″	46″	46″	55¼″	46″	61½″
14″	14″	19⅛″	14″	23″	48″	48″	58¾″	48″	65″
15″	15″	20¼″	15″	24½″					

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MEMORANDA

GARLOCK THE STANDARD PACKING OF THE WORLD

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THE STANDARD PACKING OF THE WORLD GARLOCK

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